

EXHIBIT E

[DR. GARY M. VILKE'S RULE 26 REPORT AND CURRICULUM VITAE]
TO DECLARATION OF MELANIE T. PARTOW IN SUPPORT OF
PLAINTIFFS' MOTIONS IN LIMINE 1-5

*Gary M. Vilke, M.D., FACEP, FAAEM
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June 12, 2016

Daniel S. Roberts
Cota Cole LLP
Attorneys-at-Law
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RE : Gladis Herrera, et al., v. City of Ontario, et al.
Central District of California Case No. EDCV 15-1370 JGB (SPx)

Introduction

I am a board-certified emergency department physician with substantial clinical experience in taking care of acute traumatic injuries, including gunshot wounds. I am also an independent researcher on the physiologic effects of TASER electronic control devices (ECD). I have been on multiple expert and consensus panels and have published multiple peer-reviewed papers and book chapters on these topics. My qualifications are further delineated at the end of my report.

I have been retained as an expert to review relevant materials and provide expert opinion on the allegations that the gunshot wound to the head would not have been a fatal wound if timely basic first aid and treatment had been provided and whether the use of the TASER ECD caused or contributed to the death of Mr. Herrera. After careful review, it is my opinion to a reasonable degree of medical certainty that given the nature of the penetrating intracranial injury, the associated circumstances and the care available at the scene, that this was unfortunately a terminal injury and could not have been prevented based on the events of the case. It is also my opinion that the use of the TASER ECD did not cause or contribute to the death of Mr. Herrera. These opinions and related opinions are set forth in the expert report.

Materials Reviewed

I have reviewed extensive materials pertaining to the above referenced case. This includes, but is not limited to:

Case-Specific Materials

1. Plaintiffs Operative First Amended Complaint
2. TASER-cam video of incident
3. Audio recordings of post-shooting interviews of Officers Diaz, Birdsong, and Reyes
4. 911 Audio Recordings
5. Police radio/dispatch audio recordings
6. Fire radio/dispatch audio recordings
7. Police dispatch recordings w/audio time stamp
8. Crime scene and autopsy photos
9. Ontario Police Department Call History Log
10. Ontario Fire Department Call History Log
11. Ontario Police Department Incident Report
12. Crime scene diagram
13. TASER Dataport Download
14. Coroner's Autopsy Report
15. Ontario Police Department Property Report
16. Ontario Police Department Policy 300-Use of Force
17. Ontario Police Department Policy 309-CEW
18. Ontario Police Department Policy 312-Firearms and Qualification
19. District Attorney's September 16, 2015 Memorandum
20. Deposition of Officer Nick Diaz
21. Deposition of Officer Patric Birdsong
22. Deposition of Officer Ray Reyes
23. Digital recordings of witnesses from post-shooting neighborhood canvas
24. Plaintiffs' Initial Disclosures
25. Plaintiffs' First Supplemental FRCP 26 (a)(1) Disclosure and attachments
26. Deposition of Robert Marquez (rough transcript)
27. Deposition of Ramona Guadarrama (rough transcript)

- 28. Deposition of Esther Rivera (rough transcript)
- 29. Deposition of Gladis Herrera (rough transcript)
- 30. Deposition of Jose Correa (rough transcript)
- 31. Deposition of Marlon Herrera (rough transcript)
- 32. Deposition of Ivan Herrera (rough transcript)

Overview of Opinions

(all opinions within this report are to a reasonable degree of medical or scientific probability)

An overview of my opinions is as follows with more description of each below:

- 1. The type of injury suffered by Mr. Herrera was not a survivable injury under the most optimal situation, and was indeed a terminal event under the circumstances present the evening of May 10, 2014.**
- 2. The use of the TASER ECD did not cause or contribute to the death of Mr. Herrera.**
- 3. Mr. Herrera did not endure any pain or suffering after being shot in the head.**

Analysis

After reviewing the above listed materials, it appears that on May 10, 2014 at approximately 11:40 pm, Ivan Herrera called 911 reporting that his father, Mr. Herrera, had been drinking and had passed out. Mr. Herrera was 59 years old, 5'5' tall and weighed 132 lbs. at the time. Ivan reported to the 911 dispatcher that Mr. Herrera was conscious now and was getting belligerent. He had been yelling earlier when he passed out and he looked pale. He also reported that this was out of character for him. Police and fire personnel were dispatched. Officer Patric Birdsong and Officer Ray Reyes were the first law enforcement on scene and when they arrived a firefighter notified Officer Reyes that Mr. Herrera had come outside, was belligerent and then walked away.

Officer Nick Diaz saw Mr. Herrera and his son, Marlon, walking on the sidewalk. Mr. Herrera started yelling at Officer Diaz when he got out of his car, comments including "fuck off"

and “get the fuck away.” Officer Diaz was not able to calm down Mr. Herrera, so he waited for other officers to arrive.

When Officer Birdsong arrived, Mr. Herrera directed his yelling and cursing towards him. His fists were reported to be clenched and he looked angry. Then Mr. Herrera started advancing towards Officer Birdsong, who pulled out his TASER ECD and pointed it towards Mr. Herrera. Officer Birdsong repeatedly ordered Mr. Herrera to get back, but he did not comply and continued to advance. Officer Birdsong heard someone say, “He has a knife” and when Mr. Herrera was an estimated 4-6 feet away from Officer Birdsong, he deployed the TASER ECD on Mr. Herrera.

Prior to deploying the TASER ECD, Officer Diaz noticed Mr. Herrera having a knife in his right hand with the blade exposed. Officer Diaz ordered Mr. Herrera to drop the knife, but he did not comply. When Mr. Herrera got within a couple of feet of Officer Birdsong, Officer Diaz fired seven shots at Mr. Herrera, with four of them striking him. Based on the video, it appears that the TASER ECD and the gun were fired almost simultaneously. He was pronounced dead at scene by paramedics.

Given this history, there are a number of issues that need to be addressed in more detail below. All opinions given are to a reasonable, or higher, degree of medical probability based on the information currently available.

Detailed discussion and basis of opinions

- 1. The type of injury suffered by Mr. Herrera was not a survivable injury under the most optimal situation, and was indeed a terminal event under the circumstances present the evening of May 10, 2014.***

Logic dictates that if a person sustains a gunshot wound to the head, rapid transport to a trauma center is prudent. In this case, paramedics were staged at the scene *prior* to the shooting, and Mr. Herrera still died within minutes. The few minutes that it took for the police to secure the scene

and then have the paramedics drive the short distance from the staging area did not impact the outcome of Mr. Herrera.

The reality of this case is that Mr. Herrera sustained a gunshot wound to the head that crossed midline of the brain and left a gaping area of bone loss and disrupted brain matter that was 8 cm in the transverse dimension and 4 cm in the anterior-posterior dimension.

Additionally, Mr. Herrera was shot over 15 miles away from the nearest trauma center, at minimum 20 minutes to even get to the trauma center. Even if there was not the 1-3 minute time delay for the police to secure the scene and then have paramedics enter and start their assessment, the outcome would not have changed. Even with the incredibly fast response time by EMS, Mr. Herrera was already in CPR status at the time of the EMS provider's arrival minutes after the gunshots were fired and rapidly resulted in death. Under the circumstances on May 10, 2014, Mr. Herrera suffered a non-survivable gunshot wound to his head.

2. The use of the TASER ECD did not cause or contribute to the death of Mr. Herrera.

There is a great deal of unwarranted concern of electrocution based on lay misunderstanding of the reported 50,000 volts (V) peak open arcing voltage used by TASER handheld ECDs. TASER handheld ECDs deliver only a fraction of the open arcing 50,000 V to the body. In the case of the TASER X26 ECD, the mean delivered pulse voltage is 580 V. The output voltage in a typical load for the X26 ECD is 1,200 V and for the M26 ECD is 5,000 V. However, it is not the voltage, but the delivered electrical charge, that actually creates a theoretical risk for cardiac effects. For example, the static electricity from walking across a carpet can generate 30,000 to 100,000 V. However, the average, aggregate, and actual delivered electrical current of the TASER X26 ECD is only about 1.9 milliamperes (mA) (or, 0.0019 amperes (A)) and the peak current is only about 3 A.

Or, if one thinks about it, this limited amount of delivered electrical energy able to be

transferred to a person makes sense as the TASER X26 ECD is only powered by a battery of two 3 V cells (Duracell® CR123s), commonly used in some small digital cameras (such as the Nikon F6), not an electrical outlet or power generator.

It is the TASER ECD's rapid cycling that can cause the subjects' muscles to contract at about 19 times a second that offers the effective incapacitation of the subject in probe mode, or painful compliance in drive-stun mode, while still offering a significant safety margin from electrical injury. Once the energy from an ECD is turned off, the subject is back to his physical baseline and can fight, struggle or move immediately.

There are no peer-reviewed published scientific or medical literature studies that conclusively demonstrate that TASER ECDs cause cardiac dysrhythmias or cardiac arrest in humans. More than 1.5 million volunteer subjects have undergone TASER ECD activations, and none have ever been reported to develop sudden cardiac arrest or die. Just because a TASER ECD was being used in some temporal proximity to a subject's death does not imply causation.

In this case, the TASER X26 ECD data download shows one trigger pull with a duration of 5-seconds.

If the TASER ECDs had "electrocuted" Mr. Herrera, his heart would have gone into a ventricular fibrillation (VF) at the time the electricity was being delivered. The first rhythm reported by the paramedics who attended to Mr. Herrera within minutes after he went into cardiac arrest was asystole, flatline. Asystole is not a rhythm caused by electrocution, VF is. The probes in this case were reported to be 16 cm apart. The upper probe was 5 cm medial and superior to left nipple, and the second was nearly directly inferior to it and 3 cm from costal margin. The heart was of normal size at 385 grams. All of the published scientific data as well as the objective evidence available in this case supports that the use of the TASER ECD was non-contributory to the death of Mr. Herrera, and he died because of the gunshot wound to his head.

3. *Mr. Herrera did not endure any pain or suffering after being shot in the head.*

The moment Mr. Herrera was shot in the head, he lost consciousness. At that point he was not feeling any pain or enduring any suffering. When a person gets struck in the head and loses consciousness, he is no longer sensing any pain. This is evidenced in cases when patients I care for are hit in the head do not have any recall of the events during the loss of consciousness time period. Often the first thing they note after regaining consciousness is the pain over the head over the site where they got struck. However, in the case of Mr. Herrera, with the extent of his head trauma, he immediately lost and never regained consciousness, thus, he never sensed any pain or suffered from the point he was shot in the head.

There was some testimony that reported that Mr. Herrera was said to have spoken after being shot and lifted his leg off the ground once or twice. With his loss of consciousness from the devastating brain trauma resulting from the guns shot wound, Mr. Herrera would not be able to volitionally talk or move at all. He was flaccid and limp from the injury and not processing higher levels of neurological function through his brain. Thus, he could not formulate thoughts and speak nor have the ability to coordinate motor processes and lift his leg off of the ground.

Background

My background is that I am a full time faculty member in the department of emergency medicine at the University of California, San Diego Medical Center. I am residency trained and board certified in Emergency Medicine. I work full time as a practicing clinician in the Emergency Department of a busy urban hospital and serve as the clinical operations chief for our two emergency departments with a combined annual census of approximately 70,000 visits. I currently serve as the Medical Director for Risk Management for the UC San Diego Health System. I also serve as the UCSD Medical Center's Medical Risk Management Committee Chair and Allocation Committee Co-Chair, as well as previously having served as the Chair of the Patient Care and Peer Review Committee, each of which are charged with the task of reviewing medical records and

making determinations of standard of care. I am also the former Chief of Staff for the UCSD Medical Center.

My Emergency Medical Services (EMS)/prehospital background and experience includes having been a flight physician with Lifeflight of San Diego and with Mercy Air, taking care of acutely injured patients at the scene. My EMS administrative roles include having been the Base Station Medical Director for UCSD, the Medical Director for the Palomar and Southwestern Paramedic College Training Programs, and the former Medical Director for the County of San Diego Emergency Medical Services (EMS) one of the largest EMS systems in the nation. In this role I was responsible for protocols and quality assurance of over 1000 paramedics and 4000 EMT's. I started the UCSD EMS/Disaster Medicine Fellowship Training Program and was the first Fellowship Director and currently serve as the Assistant Director of the EMS/Disaster Medicine Division in the UCSD Department of Emergency Medicine and as the Medical Director for Carlsbad Fire Department and AirLinkUSA Air Ambulance Service. Other previous roles include have been the Medical Director for the San Diego County Metropolitan Medical Strike Team (MMST) and serving as medical back up for many SWAT operations. I am also the Principal Investigator for San Diego's Resuscitative Outcomes Consortium (ROC) site, a National Institute of Health (NIH) funded study to evaluate treatment options for out of-hospital cardiac arrest and severe traumatic injury including gunshot injuries.

As a physician working at an urban based emergency department at a Level 1 trauma center, I have evaluated hundreds of patients over the last 20 years who have suffered from penetrating injuries, including gunshot wounds. I am knowledgeable of peer-reviewed medical and scientific research on penetrating trauma having authored multiple book chapters on penetrating trauma in the 5-Minute Emergency Consult textbook as well as treatment of trauma and shock in the prehospital setting in Trauma: Emergency Resuscitation, Perioperative Anesthesia, Surgical Management, Volume I.

I am knowledgeable of peer-reviewed medical and scientific research on TASER electronic control devices (ECDs) conducted by others. In fact, I was the lead author on work requested by the American Academy of Emergency Medicine (AAEM) to review the totality of the peer reviewed published medical literature on humans and come to conclusions regarding the necessary emergency department evaluation of patients being seen after receiving a TASER ECD activation. I have received federal grant funding and performed extensive clinical research on human subjects who have received TASER ECD applications (articles included in my curriculum vitae) which includes having been involved with over 200 TASER ECD activations and have personally received multiple applications of the device. I have written several book chapters on this topic and have lectured internationally about the physiologic effects of TASER ECDs.

As per Rule 26 formatting, Appendix A is a copy of my current Curriculum Vitae, which includes a list of all publications authored by me. Appendix B is a list of all cases in which I have testified as an expert in trial or deposition within the preceding four years. Appendix C is my fee schedule. The knowledge base that I utilize has been developed over time from my years of clinical practice and experience, reading and training as well as research. Under penalty of perjury, I hereby swear that the opinions stated above are true and correct within a reasonable degree of medical probability.

Respectfully submitted,



Gary M. Vilke, M.D., FACEP, FAAEM
Professor of Clinical Emergency Medicine
Emergency Medicine Clinical Service Chief and Co-Medical Director
Medical Director, Risk Management, UC San Diego Health System
Director, Clinical Research for Emergency Medicine

APPENDIX A

CURRICULUM VITAE

GARY MICHAEL VILKE, M.D., FACEP, FAAEM

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OFFICE ADDRESS:

Department of Emergency Medicine
UCSD Medical Center
200 W. Arbor Drive
San Diego, CA 92103-8676
Phone: (619) 543-6210
Fax: (619) 543-3115
E-mail: gmvilke@ucsd.edu

PERSONAL: Born September 12, 1966 in Cleveland, Ohio

EDUCATION:

Academic: 1983-88	B.S. in Zoology, University of California, Berkeley Berkeley, California
Medical School: 1988-92	M.D., University of California, San Diego School of Medicine La Jolla, California
Internship: 1992-93	Department of Surgery University of California, San Diego Medical Center San Diego, California
Residency: 1993-96	Department of Emergency Medicine University of California, San Diego Medical Center San Diego, California (Chief Resident: 1995-96)
Physician Leadership Academy: 2007-09	University of California, San Diego Medical Center San Diego, California

LICENSURE: California Medical License Number G-78057

BOARD CERTIFICATIONS:

National Board of Medical Examiners, 1993
American Board of Emergency Medicine, 1997, renewed 2007

APPOINTMENTS:

9/11 - Present	Professor of Clinical Emergency Medicine and Medicine, University of California, San Diego (UCSD) School of Medicine
1/16 – Present	Emergency Medicine Clinical Service Chief, UC San Diego Health System
1/16 – Present	Co-Medical Director, Department of Emergency Medicine, UCSD Medical Center
10/15 – Present	Medical Director, AirLinkUSA Air Ambulance Service
9/15- Present	Staff Physician, El Centro Regional Medical Center Department of Emergency Medicine
2/14- Present	Assistant Chief, Division of Emergency Medical Services (EMS)/Disaster Medicine, UCSD Medical Center, Department of Emergency Medicine
1/13 – Present	Medical Director, Carlsbad Fire Department
7/12 – Present	Medical Director, Risk Management, UC San Diego Health System
6/12 – Present	Associate Director, Department of Emergency Medicine Behavioral Emergencies Research (DEMBER) Lab
10/09 – Present	UCSD Department of Emergency Medicine <u>Clinical Research Scholar Fellowship</u> Director
4/07 – Present	Medical Director of the American Heart Association Training Center at the UCSD Center for Resuscitation Science
2/06 - Present	Chief, Division of Clinical Research, UCSD Medical Center, Department of Emergency Medicine
7/96 - Present	Assistant Director, Department of Emergency Medicine, UCSD Medical Center
7/94 - Present	Base Hospital Physician, University of California Medical Center

PREVIOUS EXPERIENCE/APPOINTMENTS:

7/13 – 9/15	Chief, Division of Custody Medicine, UCSD Medical Center, Department of Emergency Medicine
4/99 – 9/15	Director, Custody Services, UCSD Medical Center (Co-Director 1999-2013)
3/13 – 9/15	Medical Director, AviaMedix Air Ambulance Service
10/11- 2/14	Chief, Division of Emergency Medical Services (EMS)/Disaster Medicine, UCSD Medical Center, Department of Emergency Medicine
4/12 – 3/13	Medical Director, Aeromedevac Air Ambulance Service
7/09 – 6/12	Chief of Staff, UCSD Medical Center
7/07 - 6/09	Vice Chief of Staff UCSD Medical Center
7/04 – 6/09	EMS/Disaster Medicine Fellowship Director, Department of Emergency Medicine.
3/02 - 2/06	Medical Director, San Diego County Emergency Medical Services
3/03 - 12/05	Medical Consultant, San Diego Chapter Red Cross Disaster Health Services
6/04 - 2/05	Interim Chief, San Diego County Emergency Medical Services
1/01 - 2/04	Medical Director, Southwestern College Paramedic Training Program
7/00 - 2/04	Medical Director, Palomar College Paramedic Training Program
7/97 - 1/03	Director, Prehospital Services, UCSD Medical Center
6/97 - 1/03	Medical Director, Paramedic Base Hospital, UCSD Medical Center
7/96 - 1/03	Medical Director, Mercy Air Medical Transport Service, San Diego, California
4/99 - 3/01	Medical Co-Director, San Diego Central Jail Medical Services
1/96 - 7/96	Flight Physician, Mercy Air Medical Transport Service, San Diego, California
7/95 - 7/96	Associated Emergency Physicians Medical Group, San Diego, California
12/94 - 7/96	Kaiser Permanente Emergency Department, San Diego, California
10/94 - 7/96	Med America Health Resource Company, San Diego, California
4/94 - 7/95	Sharp-Rees-Stealy Urgent Care, San Diego, California
7/93 - 12/95	Flight Physician, Life Flight Air Medical Transport Service

PREVIOUS ACADEMIC APPOINTMENTS

7/05 – 9/11	Professor of Clinical Medicine, UCSD School of Medicine
7/01 - 6/05	Associate Professor of Clinical Medicine, UCSD School of Medicine
7/96 - 6/01	Assistant Clinical Professor of Medicine, UCSD School of Medicine

HONORS AND AWARDS:

1990 Random House Medical Student Award

1996 American College of Emergency Physicians, California Chapter Challenge Bowl Winner

1996 Council of Residency Directors (CORD) Resident Academic Achievement Award

1996 Outstanding Emergency Medicine Resident

1996 UCSD Emergency Department Staff Support Award

1996 *Journal of Emergency Medicine* Outstanding Contribution Award

1999 "Golden Apple" Teaching Award, UCSD Emergency Medicine Residency Graduating Class of 1999

2000 Faculty of the Year, UCSD Emergency Medicine Residency Graduating Class of 2000

2000 Best Research Poster Presentation, California Chapter of the American College of Emergency Physicians (CAL/ACEP) Scientific Assembly, Dana Point, California

2000 Outstanding Scientific Abstract, State of California EMS Authority Annual Emergency Medical Services for Children Conference, San Diego, California, November 2000

2001 Best Oral Presentation, CAL/ACEP Scientific Assembly, Santa Clara, California

2004 Academy of Clinician Scholars, University of California San Diego

2004 Top Doctor in San Diego County, San Diego Magazine

2004 Top Peer Reviewer, *Annals of Emergency Medicine*

2005 Top Doctor in San Diego County, San Diego Magazine

2005 Clinical Investigation Institute, University of California San Diego

2006 Top Doctor in San Diego County, San Diego Magazine

2007 Finalist San Diego Business Journal Health Care Champion Award

2007 Top Doctor in San Diego County, San Diego Magazine

2007 Top Peer Reviewer, *Annals of Emergency Medicine*

2008 Top Doctor in San Diego County, San Diego Magazine

2008 UCSD Undergraduate Campus Outstanding Faculty Mentor of the Year

2009 Clinical and Translational Research Institute, Charter member

2009 Top Doctor in San Diego County, San Diego Magazine

2010 Top Doctor in San Diego County, San Diego Magazine

2011 Top Doctor in San Diego County, San Diego Magazine

HONORS AND AWARDS, continued:

2012 Top Doctor in San Diego County, San Diego Magazine
2013 Top Doctor in San Diego County, San Diego Magazine
2014 Top Doctor in San Diego County, San Diego Magazine
2015 "25 Emergency Medicine & EMS Professors You Should Know" From Medical
Technology Schools at: <http://www.medicaltechnologyschools.com/emt/emergency-medicine-ems-professors-to-know>

CERTIFICATIONS:

Basic Cardiac Life Support Instructor
Pediatric Advanced Life Support Provider
Advanced Cardiac Life Support Instructor
Hazardous Material Training, Level I
Advanced HAZMAT Life Support Provider

PROFESSIONAL SOCIETY MEMBERSHIPS:

American Medical Association, 1988-97
California Alumni Association, 1988
American College of Emergency Physicians, 1991-2000
Fellow, American College of Emergency Physicians, 2000
California Chapter of the American College of Emergency Physicians, 1991
Society for Academic Emergency Medicine, 1995
National Association of EMS Physicians, 1998
Fellow, American Academy of Emergency Medicine, 2000
California Chapter of the American Academy of Emergency Medicine, 2000
American Association of University Professors, 2002
California Conference of the American Association of University Professors, 2002
San Diego Faculty Association, 2002
San Diego County Medical Society, 2003
California Medical Association, 2003
American Association of Emergency Psychiatry, 2014

PATENTS:

WO 2010/011976 A2: Medication Delivery Devices Having Penetrable Sterility Barriers and Alignment Features (January 28, 2010)

WO 2010/011976 A2: Medication Delivery Devices Having Penetrable Sterility Barriers and Alignment Features (January 28, 2010)

US 2010/011966 A2: Medication Delivery System (January 28, 2010)

US 2010/0022987 A1: Medication Delivery System (January 28, 2010)

US 61476836 Medication Delivery Apparatus (April 19, 2011)

CURRENT ACTIVITIES:

Objective Structured Clinical Examiner, Introduction to Clinical Medicine, UCSD School of Medicine, 1997

UCSD Alumni Preceptor, UCSD School of Medicine, 1997

Physician Member, San Diego County Metropolitan Medical Strike Team, 1998

Quality Assurance Reviewer, Department of Emergency Medicine, UCSD Medical Center, 1999

Evaluator, UCSD Physician Assessment and Clinical Evaluation (PACE) Program, 2000

Tactical EMS Care Provider for San Diego Sheriff's Special Enforcement Detail (SED), 2007

San Diego State Pre-Med Preceptor, SDSU, 2008

Phi Delta Epsilon Faculty Mentor, UCSD, 2008

LIFESHARING, A Donate Life Organization Advisory Board, 2010

Journals

Editor-in-Chief, *Advances in Legal Medicine*, Longdom Publishing, 2014-2015.

Senior Associate Editor/Editorial Board, *Journal of Emergency Medicine*, Elsevier Science, Inc., 2013 (Associate Editor since 2007, Editorial board since 2000; reviewer since 1994)

Editorial Board, *Prehospital Emergency Care*, Taylor & Francis Group, 2006 (Reviewer since 2004)

Editorial Board, *Journal of Forensic and Legal Medicine*, Elsevier Science, Inc. 2012 (Reviewer since 2011)

Editorial Board, *Emergency Medicine and Healthcare*, Herbert Publications, 2013

Senior Reviewer, *Annals of Emergency Medicine*, Mosby, 2007 (Reviewer since 1998)

Reviewer, *European Journal of Epidemiology*, Kluwer Academic Publishers, 1996-97

Reviewer, *Western Journal of Emergency Medicine*, 2001

Reviewer, *American Journal of Emergency Medicine*, Elsevier Science, Inc., 2005

Reviewer, *Emergency Medicine Journal*, BMA House, 2006

Reviewer, *Forensic Science International*, 2007

Reviewer, *California Journal of Emergency Medicine*, 2007

Reviewer, *Journal of the American Medical Association (JAMA)*, 2009

Reviewer, *BioMedical Engineering OnLine*, 2009

Reviewer, *Bioelectromagnetics*, 2010

Reviewer, *Forensic Science, Medicine and Pathology*, 2010

Reviewer, *Psychology Research and Behavior Management*, 2010

Reviewer, *Academic Emergency Medicine*, 2010

Reviewer, *Medicina*, 2012

Reviewer, *Injury Prevention*, 2013

Reviewer, *Therapeutics and Clinical Risk Management*, 2013

Reviewer, *Pediatrics*, 2013

Reviewer, *Journal of Forensic Toxicology and Pharmacology*, 2014

Reviewer, *Journal of Injury and Violence Research*, 2014

Reviewer, *International Journal of Molecular Sciences*, 2015

Reviewer, *Emergency Medicine International*, 2015

Content Expert

Reviewer, Practical Summaries in Acute Care, Thomson American Health Consultants, 2006

Expert Editorial Advisor, *Managing the Ankylosing Spondylitis Patient in an Emergency Setting for the Spondylitis Association of America (SAA)*. 2008

Content Expert for Cable News Network (CNN), 2009

Content Expert for ABC News, 2011

PREVIOUS ACTIVITIES:

Vice-President, California Chapter of Emergency Medicine Residents Association, 1994-95
Editor-in-Chief, California Chapter of Emergency Medicine Residents Association Newsletter, 1994-95
Co-Director, School of Medicine 225: Introduction to Emergency Medicine, UCSD School of Medicine, 1994-95
Strike Team Leader, DMAT Olympics 1996 Biological & Chemical Antiterrorist Medical Support
Director, Mercy Air Medical Transport Services Continuing Clinical Education, 1996-2003
Member, San Diego County 911 Dispatch Quality Review Board, 1997-98
Co-Director, University of California, San Diego School of Medicine, Course SOM 224I, Pediatric Advanced Life Support Course Director, 1997-2002
Editor-in-Chief, UCSD Medical Center EMS Run Review, 1997-2003
Sponsor, Palomar College Emergency Medical Education Department Paramedic Training, 1997-2003
Medical Support Physician, Super Bowl XXXII, San Diego, California, January 25, 1998
Medical Support Physician, Suzuki Rock-n-Roll Marathon, San Diego, California, June 21, 1998
Marketing Director, California Chapter of the American College of Emergency Physicians (CAL/ACEP) Scientific Assembly, 1998-99
Member, Program Committee, CAL/ACEP Scientific Assembly, 1998-99
Howard Hughes Foundation Undergraduate Preceptor, 1998, 1999
Co-editor, Pearls from PAC Newsletter, 1998-2000
Preceptor, Introduction to Clinical Medicine 201-B, UCSD School of Medicine, 1999
EMS Team Leader, San Diego County Metropolitan Medical Strike Team, 1999
Co-Chair, Program Committee, CAL/ACEP Scientific Assembly, 1999-2000 and 2000-01
Member, San Diego County Bio-Terrorism Planning Group, 1999-2003
Moderator, EMS Poster Section, Western Regional Society for Academic Emergency Medicine Conference, Portland, Oregon, April 2000
Preceptor, California State University Dominguez Hills Statewide Nursing Program, 2000
Affiliate Faculty, Southwestern College Paramedic Training Program, 2000-03

PREVIOUS ACTIVITIES, continued:

Medical Director, EPIC "Eliminate Preventable Injuries of Children" Medics, San Diego County, 2000-03

San Diego Port District AED (Automated External Defibrillator) Program RPF Panel, 2001

Peer Reviewer, *Pediatric Emergency Medicine Reports*, 2001

Reviewer, Scientific Abstract Presentations, CAL/ACEP Scientific Assembly, 2001-02

Member, Board of Directors, CAL/ACEP, 2001-03

Moderator, Western Regional SAEM Research Presentations, San Diego, California, April 2002

Clinical Coordinator, Southwestern College Emergency Medical Technician Program, 2001-03

Santa Clara County/Regional Medical Center Trauma Designation Review Committee, 2004

San Diego County Health Services Capacity Issues Task Force, 2002-06

San Diego Regional Safety Consortium Inter-facility Transfer Protocol Task Force, 2004-06

San Diego Regional Fire Prevention Emergency Preparedness Task Force, 2004-2006

San Diego County Task Force on Fire Prevention, 2004-06

President-Elect, EMS Medical Director's Association of California, 2005-06

Medical Director, San Diego County Metropolitan Medical Strike Team, 1998-2008

American College of Emergency Physicians (ACEP) Task Force on Excited Delirium Syndrome 2009-10

National Institute of Justice Task Force on Excited Delirium, 2011

Member, Disaster Medical Assistance Team (CA-4), 1994-2011

Operations Committee, San Diego County Metropolitan Medical Strike Team, 1998-2010

CURRENT UCSD COMMITTEE MEMBERSHIPS:

Research Committee, Department of Emergency Medicine, 1997
UCSD Faculty Association, 2002
Quality Improvement/Peer Review Committee, Department of Emergency Medicine, 2002
UCSD Academy of Clinician Scholars Executive Committee, 2005
UCSD Medical Staff Executive Committee, 2007
Chair, UCSD Medical Risk Management Committee, 2012
UCSD Allocation Committee, 2012
UCSD Significant Events Committee, 2012
Rady Children's Root Cause Analysis Committee, Ad hoc, 2012
UCSD/Rady Children's Joint Risk Management Committee (JRMCM), 2013
UCSD Department of Emergency Medicine Academic Affairs Committee, 2013
UCSD Patient Experience Executive Committee, 2013
UCSD Faculty Leadership Group, 2014
Patient Advocacy Reporting System (PARS) Oversight Team, 2014
Rady Children's Emergency Department Faculty Search Committee, 2015

PREVIOUS UCSD COMMITTEE MEMBERSHIPS:

President, UCSD Academy of Clinician Scholars, 2013-15
UCSD Board of Governor's Committee, 2013-15
UCSD Academic Senate Representative Assembly, Alternate, 2011-13
UCSD Sheriff Managed Care Oversight Committee
Ladder Rank Recruitment Committee, UCSD Department of Emergency Medicine, 2013
UCSD Medical Staff Bylaws Work Group, 2014
Chair, Emergency Department Staffing Committee of Process Action Team, 1994-95
Hospital Infection Control Committee, 1994-95
Emergency Medicine Housestaff Association Representative, 1994-96
Emergency Department Clinical Practices Committee, 1994-96
Emergency Department Peer Review/Quality Assurance Committee, 1995-96
Emergency Department Critical Care Room Process Action Team, 1996
Paramedic/Emergency Department Interface Task Force, 1998-99
Emergency Department Staffing Committee, Department of Emergency Medicine, 1999
Credentials Committee, 1997-2000
Faculty Search Committee, Department of Emergency Medicine, 1999, 2000, 2002
Medical Director's Group, 1997-2002
Patient Care Review Committee, 2003
Medical Risk Management Committee, 2002-07
Patient Improvement and Outcome Committee, 2003-05
Medical Staff Executive Committee Reorganization Ad Hoc Committee, 2005-2006
UCSD Phasing Strategy Ad Hoc Committee, 2005-06
Clinical Representative, Trauma Quality Assurance Program, 1998-2006
Vice Chief of Staff, UCSD Medical Center, 2007-2009
UCSD/San Diego Sheriff Security Working Group, 2003-10
Chief of Staff, UCSD Medical Center, 2009-2012
Vice-Chair, Quality Council Committee, 2009-2012 (member since 2003)
Chair, Medical Staff Executive Committee, 2009-2012
UCSD Governance Advisory Committee, 2009-2012
UCSD Department of Medicine Clinical Operations Redesign Enterprise (CORE) Initiative Team, 2009-2012

PREVIOUS UCSD COMMITTEE MEMBERSHIPS, continued:

Director of Risk Management Selection Committee, 2007
Chair, Medical Risk Management Committee, 2003-07 (member since 2002)
Medical Risk Management Executive Committee, 2003-07
UCSD Medical Center Allocation Committee 2005-07
Patient Safety Committee, 2003-07
Vice Chair, Medical Staff Executive Committee, 2007-09
Chair, Patient Care and Peer Review Committee, 2007-09 (member since 2005)
Trauma Multidisciplinary Committee, 2000-09
Department of Medicine Committee on Advancement and Promotions (DOMCAP), 2007-09
Vice Chair, Quality Council Committee, 2009-2012
UCSD Medical Center Syncope Task Force, 2010-11
UCSD Director of Risk Management Selection Committee, 2012
Secretary-Treasurer, UCSD Academy of Clinician Scholars, 2005-12
UCSD Root Cause Analysis Committee, 2013
UCSD Department of Emergency Medicine Chair Selection Committee, 2012-13
UCSD Department of Emergency Medicine Faculty Coverage Committee, 2012-13
UCSD Integrated Delivery Network Design Team, 2012-13
UCSD Department of Emergency Medicine Patient Satisfaction Committee, 2012-13
UCSD Department of Emergency Medicine Faculty Search Committee, 2013

CURRENT COMMITTEE MEMBERSHIPS:

American Academy of Emergency Physicians, Clinical Practice Committee, 2011
Carlsbad Fire Department EMS Oversight Committee, 2013
San Diego County Base Station Physicians' Committee, 2013

PREVIOUS COMMITTEE MEMBERSHIPS:

Practice Management Committee, CAL/ACEP, 1994-95
Committee on Prehospital Stroke Triage, San Diego County Medical Society, 1998
Research Subcommittee, San Diego County Prehospital Audit Committee, 1997-99
Prehospital RSI Task Force, San Diego County Prehospital Audit Committee, 1997-99
Chair, San Diego County Prehospital Audit Committee, 1998-2000
San Diego County Pediatric CPR Task Force, 1999-2000
San Diego Sheriff's Source Selection Committee, 2000
Steering Committee, San Diego County Metropolitan Medical Strike Team, 1998-2001
Program Committee, CAL/ACEP Scientific Assembly, 1998-2001 (Co-Chair for 1999-2001)
Awards Committee, CAL/ACEP Scientific Assembly, 1999-2001
EMS Committee, San Diego County Metropolitan Medical Strike Team, 1999-2001
San Diego Metropolitan Medical Response System Bio-Terrorism Planning Group, 1999-2001
San Diego County EMS QA Net Prehospital Design Steering Committee, 2000-01
Chair, CPR Subcommittee, San Diego County Prehospital Audit Committee, 1998-2002
San Diego County SIPs (Serial Inebriate Program) Task Force, 2000-02
Task Force Leader, CAL/ACEP Scientific Assembly, 2001-02
Chair, Training Committee, San Diego County Metropolitan Medical Strike Team, 2001-02
Co-Chair, EMS Committee, CAL/ACEP, 2001-02
Policy Committee, CAL/ACEP, 2001-02
Chair, Research Subcommittee, San Diego County Prehospital Audit Committee, 2000-02
Governmental Affairs Committee, CAL/ACEP, 2001-02
Didactic Subcommittee, SAEM Program Committee, 2001-02
Program Mgmt Committee, San Diego County Metropolitan Medical Strike Team, 2001-03
Air Medical Transport Section, American College of Emergency Physicians, 2001-03
San Diego County Sheriff's Mortality Review Committee, 2001-03
San Diego County Sheriff's Pharmacy and Therapeutics Committee, 2001-03
City of San Diego EMS Physicians' Advisory Committee, 1998-2006
City of San Diego Prehospital Cardiac Advisory Committee, 1998-2006
Education Committee, CAL/ACEP, 2000-03
SAEM EMS Interest Group, 2001-2006 (Co-chair 2003-04)

PREVIOUS COMMITTEE MEMBERSHIPS, continued:

San Diego County EMS for Children (EMSC) Advisory Committee, 2002-05
Scientific Subcommittee, SAEM Program Committee, 2002-05
Police Executive Research Forum Task Force on Conductive Energy Weapons Use, 2005
San Diego County EMS for Children (EMSC) Advisory Committee, 2002-05
Scientific Subcommittee, SAEM Program Committee, 2002-05
Member-at-large, EMDAC Officer Board, 2004-05
San Diego County Fire Chiefs Association, 2004-06
San Diego County Sheriff's Helicopter Program Ad Hoc Advisory Committee, 2004-06
Chair, San Diego County HRSA Work Group, 2004-06
San Diego County Regional Helicopter Advisory Committee, 2004-06
San Diego County HRSA Executive Steering Committee, 2004-06
San Diego County Critical Care Transport Working Group, 2005-06
San Diego County Prehospital Patient Record IT Steering Committee, 2005-06
San Diego County Cardiac Advisory Committee, 2005-06
San Diego County Stroke Advisory Committee, 2005-06
San Diego County Emergency Medical Care Committee, 2006
Co-Chair, San Diego County Medical Society EMS Medical Oversight Committee, 2002-2006
Chair, EMS Committee, American Academy of Emergency Medicine California Chapter, 2000-06
EMS Medical Director's Association of California, 2002-06
San Diego County Trauma Administrators Committee, 2002-06
Chair, San Diego County EMS Research Committee, 2002-06
Chair, San Diego County Paramedic Protocol Revision Committee, 2002-06
San Diego County Public Health Services Physicians Group, 2003-06
SAEM EMS Interest Group, 2001-2006 (Co-chair 2003-04)
San Diego County Healthcare Advisory Committee on Terrorism, 2003-06
San Diego County Paramedic Training Joint Advisory Committee, 2000-06
San Diego County Public Health Preparedness Team, 2001-06
EMS Section, American College of Emergency Physicians, 2001-06
Chair, San Diego County Aeromedical Protocol Committee, 1998-2006
San Diego County Committee on Pediatric Emergency Medicine, 1998-2006

PREVIOUS COMMITTEE MEMBERSHIPS, continued:

San Diego County Base Hospital Physicians Committee, 1997-2006
San Diego County Trauma Audit Committee, 1997-2006
San Diego County Prehospital Audit Committee, 1997-2006
EMS Medical Director's Association of California, 2002-06
SAEM Program Committee, 2001-2007
Chair, Photography Subcommittee, SAEM Program Committee, 2002-2007
Training Committee, San Diego County Metropolitan Medical Strike Team, 2001-09
San Diego BEACON/EMS Hub Technical Committee, 2012-13
San Diego Central Jail Quality Assurance Committee, 1999-2013
San Diego Central Jail Medical Oversight Committee, 1999-2013
Resuscitative Outcomes Consortium (ROC) Executive Committee, 2014-15
Resuscitative Outcomes Consortium (ROC) EMS Operations Committee, 2014-15
Resuscitative Outcomes Consortium (ROC) Management Committee, 2014-15
Resuscitative Outcomes Consortium (ROC) Hospital Practices Cardiac Committee, 2014-15
Resuscitative Outcomes Consortium (ROC) Publications Committee, 2014-15
Resuscitative Outcomes Consortium (ROC) Cardiac Committee, 2014-15
Resuscitative Outcomes Consortium (ROC) Trauma Committee, 2014-15

CURRENT FUNDED RESEARCH:

1. Principal Investigator (PI) for study entitled, “EXCITATION Study: Unexplained InCustody Deaths: Evaluating Biomarkers of Stress and Agitation.” Study funded by the National Institute of Justice, U.S. Department of Justice, 11/1/2012 to 6/30/2016. USDOJ Federal Award # 2012-R2-CX-K006. Amount: \$431,943
2. Principal Investigator (PI) for the study titled, “Resuscitation Outcomes Consortium (ROC) Protocol -ALPS”, funded by the NIH, 7/1/13 to 6/3/16. 5U01HL077863-11 subaward 758500. Amount: \$289,003
3. Co-Investigator with Edward Castillo (PI) for study entitled, “Acute Home Care as an Alternative to Inpatient Admission from the Emergency Department”. Funded by the Gary and Mary West Health Institute, 2015 – 2016. Amount: \$499,125.
4. Co-Investigator with Theodore Chan (PI) for study entitled, “The Gary and Mary West Geriatric Center of Excellence (West COE): Phase I Research Development”. Funded by the Gary and Mary West Health Institute, 2015-2016. Amount: \$243,610.

PREVIOUS FUNDED RESEARCH:

1. Co-Investigator with Tom Neuman (PI) for evaluation of positional asphyxia in the hobble restraint position, funded by the County of San Diego, 1995--\$33,900
2. Co-Investigator, with Theodore Chan (PI), for evaluation of the Melker percutaneous cricothyrotomy kit in human cadavers, funded by Cook Medical Products, 1997--\$10,000
3. Co-Investigator with John Eisele (PI) for the evaluation of positional asphyxia in the hobble restraint position with weight on subjects' backs, funded by the American Academy of Forensic Sciences, 1998--\$2,500
4. Co-Investigator, with Theodore Chan (PI), for study entitled, "The Impact of Oleoresin Capsicum Spray on Respiratory Function in Human Subjects in the Sitting and Prone Maximal Restraint Positions." Study funded by the National Institute of Justice, U.S. Department of Justice, 1998-99. UCSD No. 98-7107; USDOJ Federal Award #98-IJ-CX-0079. Amount: \$128,176
5. Principle Investigator (PI) for study entitled "Evaluation of Hurricaine anesthetic in patients with dyspepsia" funded by Beutlich Pharmaceuticals for, 2001. Amount: \$1,500
6. Co-Investigator, with Theodore Chan (PI), for evaluation of the Melker percutaneous cricothyrotomy kit in human cadavers, funded by Cook Medical Products, 2003. Amount: \$12,000
7. Co-Investigator, with David Hoyt (PI) for the Resuscitation Outcomes Consortium: UCSD / San Diego Resuscitation Research Center, funded by the NIH, 9/1/04 to 6/30/09. UO1 HL077908. Amount: \$2,250,522
8. Co-Principal Investigator (Co-PI), with Theodore Chan, for study entitled, "The effect of Taser on Cardiac, Respiratory and Metabolic Physiology in Human Subjects." Study funded by the National Institute of Justice, U.S. Department of Justice, 10/1/2005 to 9/30/2007. UCSD No. 2006-0846; USDOJ Federal Award #98-IJ-CX-0079. Amount: \$213,941.4
9. Co-Investigator, with Daniel Davis (PI) for the study entitled, "ROC Interventional Trials: Hypertonic Resuscitation for Traumatic Injury, Trauma Epistry, PRIMED", funded by the NIH, 7/1/06 to 6/30/08. UO1 HL077863. Amount: \$331,320
10. Co-Investigator, with Daniel Davis (PI) for the, "ROC Cardiac Epistry", funded by the AHA, 7/1/06 to 6/30/08. Amount: \$133,427
11. Co-Investigator, with Theodore Chan (PI) for study entitled, "Multi-Center Study of the Impact of Nurse-Patient Ratios on Emergency Department Overcrowding." funded by the Emergency Medicine Foundation, 7/1/07 to 6/30/08. Amount: \$50,000
12. Principal Investigator (PI) for study entitled, "Evaluation of the Ventilatory and Respiratory Effects of a Restraint Chair on Human Subjects." Funded by the Institute for the Prevention of In-Custody Deaths, Inc, 1/1/07 to 12/31/07. Amount: \$11,658

PREVIOUS FUNDED RESEARCH (cont):

13. Co-Investigator, with Edward Castillo (PI) for study entitled, "California ED Diversion Project Evaluation." funded by the California Healthcare Foundation, 5/15/08 to 10/15/08. Amount: \$50,990
14. Principal Investigator (PI) for study entitled, "Ventilatory Effects of Prone Restraint on Obese Human Subjects." Funded by the Institute for the Prevention of In-Custody Deaths, Inc, 1/1/09 to 12/31/09. Amount: \$13,423
15. Principal Investigator (PI) for study entitled, "FAST TRAC: Finding ACS with Serial Troponin Testing for Rapid Assessment." Funded by the Nanosphere, Inc. 2/1/09 to 2/1/11. Amount: \$85,000
16. Principal Investigator (PI) for study entitled, "CHOPIN: Copentin Helps in the Early Detection of Patients with Acute Myocardial Infarction." Funded by Brahms AG, 8/1/09 to 8/1/12. Amount: \$103,950
17. Co-Investigator, with Christine Hall for the study titled, "RESTRAINT - Risk of dEath in Subjects That Resisted: Assessment of Incidence and Nature of faTal events", funded by the Vancouver Island Health Authority. 7/1/09 to 6/30/11. Amount \$50,000
18. Co-Investigator for study titled "STAT MERCURY: Studying the Treatment of Acute HyperTension: A Multicenter EmERgency Department Clevidipine Utilization RestrY" funded by the Medicines Company, 7/27/10 to 11/1/11. Amount \$1400
19. Co-Investigator for study titled "A Phase II, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety and Efficacy of MN-221 when Administered Intravenously as an Adjunct to Standard Therapy to Adults with an Acute Exacerbation of Asthma." Study funded by MediciNova, Inc. 1/1/11 to 1/31/12. Amount \$50,000
20. Principle Investigator for study titled "AKINESIS: Acute Kidney Injury N-gal Evaluation of Symptomatic heart failure." Study funded by Alere and Abbott, 4/1/11 to 6/30/12. Amount \$32,000
21. Principle Investigator for study titled "Evaluation of Ecallantide (DX-88) for the Acute Treatment of Angiotensin Converting Enzyme Inhibitor Induced Angioedema, a Phase II, double-blind study. Study funded by Dyax Corporation. 4/1/11 to 6/30/12. Amount \$20,000
22. Principle Investigator for study titled "REAL: Rapid Evaluation of Acute Kidney Injury with NGAL in Acutely Ill Patients in the ICU." Study funded by Alere, 5/1/11 to 6/30/12. Amount \$74,435
23. Principle Investigator for study titled "A Mult-Center, Open-Label, Surveillance Trial to Evaluate the Safety and Efficacy of a Shortened Infusion Time of Intravenous Ibuprofen Protocol CPI-CL-015." Study funded by Cumberland Pharmaceuticals, Inc., 6/1/11 to 6/30/12. Amount \$50,000

PREVIOUS FUNDED RESEARCH (cont):

24. Co-Investigator, with Edward Castillo (PI) for the study titled, "Restraint Chair Literature Review and Policy Gap Analysis", funded by the Ontario Ministry of Community Safety and Correctional Services, 7/1/13 to 9/30/13. COS-0010. Amount: \$15,000
25. Co-Investigator, with Daniel Davis (PI) for the study titled, "Resuscitation Outcomes Consortium (ROC) Regional Clinical Center, San Diego", funded by the NIH, 3/1/10 to 6/30/14. U01 HL077908-09. Amount: \$1,389,389
26. Co-Investigator with Edward Castillo (PI) for study entitled, "Diagnostic Evaluation using ClearView in Decision Making in the Emergency Room". Funded by EPIC Research and Diagnostics, Inc, 2012-2014. Amount: \$650,840.10 (based on 570 total participants).
27. Co-Investigator with Edward Castillo (PI) for study entitled, "Point-of-Care Testing for Illicit Drugs and Alcohol Intoxication in an Emergency Room". Funded by the National Institute on Drug Abuse through Seacoast Science, Inc., 2013-2015. Amount: \$50,163.
28. Co-Investigator with Edward Castillo (PI) for study entitled, "Evaluation of downward force placed onto prone subjects." Funded by the Institute for the Prevention of In-Custody Deaths, Inc., 2014-2015. Awarded, contract in process. Amount: \$7,500.
29. Co-Investigator with Edward Castillo (PI) for study entitled, "Acute Bacterial Skin and Skin Structure Infection (abSSSI) Practice Pattern Assessment." Funded by Durata Therapeutics International B.V., 2014-2015. Amount: \$15,000.
30. Co-Investigator with Edward Castillo (PI) for study entitled, "Exploring emergency room physician's knowledge and attitudes concerning the use of appropriate and safe home care as an alternative to hospital admission." Funded by the Gary and Mary West Health Institute, 2014-2015. Amount: \$118,021.
31. Co-Investigator with Allyson Kreshak (PI) for study entitled, "Telephone, Text or Type? Comparing Tools for Improving Physician-Patient Communication Beyond the Walls of the Emergency Department after Discharge." Funded by the UCSD Academy of Clinician Scholars, 2014-2015. Amount: \$10,000.
32. Principal Investigator (PI) for the study titled, "Resuscitation Outcomes Consortium (ROC) Regional Clinical Center, San Diego", funded by the NIH, 7/1/14 to 12/31/15. U01 HL077908-09. Amount: \$1,389,389

PUBLICATIONS:

Texts/Books

1. Atlas of Emergency Procedures. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001.
2. Atlas of Emergency Procedures. (Edition translated into Spanish) Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2005.

Book Chapters

1. Vilke GM: Head Trauma, Blunt. In: The 5 Minute Emergency Medicine Consult. Rosen P, Barkin RM, Hayden SR, Schaidler JJ, Wolfe R (Eds.); Philadelphia: Lippincott Williams & Wilkins, 1999, pp 472-473.
2. Vilke GM: Head Trauma, Penetrating. In: The 5 Minute Emergency Medicine Consult. Rosen P, Barkin RM, Hayden SR, Schaidler JJ, Wolfe R (Eds.); Philadelphia: Lippincott Williams & Wilkins, 1999, 474-475.
3. Vilke GM: Urethral Catheterization. In: Atlas of Emergency Procedures. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 124-127.
4. Vilke GM: Cystostomy. In: Atlas of Emergency Procedures. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 128-129.
5. Vilke GM: Bladder Aspiration. In: Atlas of Emergency Procedures. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 130-131.
6. Vilke GM: Dorsal Slit in Phimosis. In: Atlas of Emergency Procedures. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 132-133.
7. Vilke GM: Manual Paraphimosis Reduction. In: Atlas of Emergency Procedures. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 134-135.
8. Vilke GM: Zipper Removal. In: Atlas of Emergency Procedures. Rosen P, Chan TC, Vilke GM, Sternbach G (Eds.); St. Louis: Mosby, Inc., 2001, pp 136-137.
9. Hayden SR, Silfvast T, Deakin CD, Vilke GM: Surgical Procedures. In: Prehospital Trauma Care. Soreide E, Grande CM (Eds.); New York: Marcel Dekker, Inc., 2001, pp 323-354.
10. Hayden SR, Thierbach A, Vilke GM, Sugrue M: Patient Turnover: Arriving and Interacting in the Emergency Department. In: Prehospital Trauma Care. Soreide E, Grande CM (Eds.); New York: Marcel Dekker, Inc., 2001, pp 737-751.
11. Vilke GM: Cervical Spine Injury, Adult. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaidler J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 1048-1049.

PUBLICATIONS, continued:Book Chapters

12. Vilke GM: Extremity Trauma, Penetrating. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 394-395.
13. Vilke GM: Head Trauma, Blunt. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 476-477.
14. Vilke GM: Head Trauma, Penetrating. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 478-479.
15. Vilke GM: Ring/Constricting Band Removal. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 980-981.
16. Vilke GM: Warts. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 1222-1223.
17. Vilke GM: Fournier's Gangrene. In: Rosen and Barkin's 5-Minute Emergency Medicine Consult (second edition). Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2003, pp 430-431.
18. Vilke GM: Variants of Normal. In: ECG in Emergency Medicine and Acute Care. Chan TC, Brady WJ, Harrigan RA, Ornato JP, Rosen P (Eds.); Philadelphia: Elsevier Mosby, 2005, pp 12-15.
19. Vilke GM: Keloid Formation. In: Greenberg's Text-Atlas of Emergency Medicine. Greenberg MI, Hendrickson RG, Silverberg M (Eds.); Philadelphia: Lippincott Williams and Wilkins, 2005, p 684.
20. Vilke GM: Distal Digital Amputation. In: Greenberg's Text-Atlas of Emergency Medicine. Greenberg MI, Hendrickson RG, Silverberg M (Eds.); Philadelphia: Lippincott Williams and Wilkins, 2005, p 685.
21. Vilke GM: Painful Syndromes of the Hand and Wrist. In: Harwood-Nuss' Clinical Practice of Emergency Medicine fourth edition. Editor-in-chief: AB Wolfson. Philadelphia: Lippincott Williams and Wilkins, 2005, pp 536-540.
22. Vilke GM: Neck Holds. In: Sudden Deaths in Custody. Ross DL, Chan TC (Eds.); New Jersey: Humana Press, 2006, pp 15-38.

PUBLICATIONS, continued:Book Chapters

23. Sloane C, Vilke GM: Riot Control Agents, Tasers and Other Less Lethal Weapons. In: Sudden Deaths in Custody. Ross DL, Chan TC (Eds.); New Jersey: Humana Press, 2006, pp 113-138.
25. Vilke GM: *Clostridium botulinum* Toxin (Botulism) Attack. In: Disaster Medicine. Ciotto GR (Ed.); Boston: Elsevier Mosby, 2006, pp 701-704.
26. Vilke GM: Viral Agents (Section 10, Part 2). Section Editor. In: Disaster Medicine. Ciotto GR (Ed.); Boston: Elsevier Mosby, 2006, pp 661-697.
27. Patel R, Reynoso J, Vilke GM: Genitourinary Trauma. In: Emergency Medicine Handbook. Clinical Concepts for Clinical Practice. Roppolo LP, Davis D, Kelly SP, Rosen P (Eds.); Philadelphia: Elsevier Mosby, 2007, pp 164-173.
28. Vilke GM: Extremity Trauma, Penetrating. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (third edition). Schaidt JJ, Hayden SR, Wolfe RE, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2007, pp 392-393.
29. Vilke GM: Fournier's Gangrene. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (third edition). Schaidt JJ, Hayden SR, Wolfe RE, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2007, pp 428-429.
30. Vilke GM: Head Trauma, Blunt. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (third edition). Schaidt JJ, Hayden SR, Wolfe RE, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2007, pp 474-475.
31. Vilke GM: Head Trauma, Penetrating. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (third edition). Schaidt JJ, Hayden SR, Wolfe RE, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2007, pp 476-477.
32. Vilke GM: Spine Injury: Cervical, Adult. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (third edition). Schaidt JJ, Hayden SR, Wolfe RE, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2007, pp 1040-1041.
33. Vilke GM: Warts. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (third edition). Schaidt JJ, Hayden SR, Wolfe RE, Barkin RM, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2007, pp 1224-1225.
34. Vilke GM, Sloane CM, Chan TC. Accelerated Triage for Medical Evaluations Following CED Activations. In: Critical Issues in Policing Series: Strategies for Resolving Conflict and Minimizing Use of Force. Ederheimer JA (Ed); Washington DC, Police Executive Research Forum, 2007, pp 108-109.

PUBLICATIONS, continued:Book Chapters

35. Christensen EF, Deakin C, Vilke GM: Prehospital Care and Trauma Systems. In: Trauma: Emergency Resuscitation, Perioperative Anesthesia, Surgical Management, Volume I. Wilson WC, Grande CM, Hoyt DB (Eds.); New York: Informa Healthcare USA, Inc, 2007, pp 43-58.
36. Chan TC, Vilke GM. In: TASER® Conducted Electrical Weapons: Physiology, Pathology, and Law. Kroll MW, Ho JD (Eds.); New York: Springer, 2009, pp 109-118.
37. Vilke GM: Hand and Wrist Pain. In: Harwood-Nuss' Clinical Practice of Emergency Medicine fifth edition. Editor-in-chief: AB Wolfson. Philadelphia: Lippincott Williams and Wilkins, 2010, pp 711-714.
38. Wilson MP, Vilke GM. Not all ear pain is acute otitis media...and not all require antibiotics! In: Avoiding Common Errors in the Emergency Department. Mattu A, Channugam AS, Swadron SP, Tibbles CD, Woolridge DP (Eds) Philadelphia: Lippincott Williams and Wilkins, 2010, pp 520-522.
39. Oyama LC, Vilke GM. In: Emergency Medicine Review Preparing for the Boards. Harrigan RA, Uffberg JW, Tripp ML (Eds) St. Louis: Elsevier Saunders, 2010, pp 303-315.
40. Vilke GM: Extremity Trauma, Penetrating. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fourth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2011, pp 392-393.
41. Vilke GM: Fournier's Gangrene. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fourth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2011, pp 428-429.
42. Vilke GM: Head Trauma, Blunt. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fourth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2011, pp 476-477.
43. Vilke GM: Head Trauma, Penetrating. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fourth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2011, pp 478-479.
44. Vilke GM: Spine Injury: Cervical, Adult. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fourth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2011, pp 1044-1045.

PUBLICATIONS, continued:

Book Chapters

45. Vilke GM: Warts. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fourth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2011, pp 1226-1227.
46. Heegaard WG, Vilke GM: Factitious Conducted Electrical Weapons Wounds: Injuries and Considerations. In: Atlas of Conducted Electrical Weapon Wounds and Forensic Analysis. Ho JD, Dawes DM, Kroll MW (Eds.) New York: Springer, 2012, pp 131-142.
47. Wilson MP, Vilke GM. The patient with excited delirium in the emergency department. In Zun LS, Chepenik LG, Mallory MNS editors. Behavioral Emergencies: A handbook for emergency physicians. Cambridge: Cambridge University Press; 2013.
48. Vilke GM: Extremity Trauma, Penetrating. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fifth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2015, pp 398-399.
49. Vilke GM: Fournier Gangrene. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fifth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2015, pp 434-435.
50. Vilke GM: Head Trauma, Blunt. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fifth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2015, pp 486-487.
51. Vilke GM: Head Trauma, Penetrating. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fifth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2015, pp 488-489.
52. Vilke GM: Spine Injury: Cervical, Adult. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fifth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2015, pp 1054-1055.
53. Vilke GM: Warts. In: Rosen & Barkin's 5-Minute Emergency Medicine Consult (fifth edition). Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin RE, Shayne P, Rosen P (Eds.); Philadelphia: Lippincott Williams & Wilkins, 2015, pp 1240-1241.
54. Vilke GM: Hand and Wrist Pain. In: Harwood-Nuss' Clinical Practice of Emergency Medicine sixth edition. Editor-in-chief: AB Wolfson. Philadelphia: Lippincott Williams and Wilkins, 2015, pp 707-710.

PUBLICATIONS, continued:

Book Chapters

55. Vilke GM: The Question of Positional and Compression Asphyxia. In: The Thin Blue Line. Amdur E and Hutchings J (eds.) Edgewood, 2015, pp 287-290.
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153. Wilson MP, MacDonald KS, Vilke GM, Feifel D. Potential Complications of Olanzapine and Benzodiazepines Compared to Haloperidol and Benzodiazepines In Emergency Department Patients. *Ann Emerg Med* 2010; 56(3):S155.
154. Killeen JP, Castillo EM, Vilke GM, Marshall JB, Chan TC. Impact of Mandated Nurse-Patient Ratios on Emergency Department Discharge Time. *Ann Emerg Med* 2010; 56(3):S182.
155. Chan TC, Castillo EM, Humber DM, Killeen JP. Frequency of Pharmacy Interventions and Emergency Overrides Following Implementation of Electronic Pharmacy Review In the Emergency Department. *Ann Emerg Med* 2010; 56(3):S343.
156. Chan TC, Castillo EM, Vilke GM, Killeen JP. Do Computerized Medication Alerts Change Medication Orders In the Emergency Department. *Ann Emerg Med* 2010; 56(3):S372.

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158. Vilke GM, Anthony E, Castillo EM. Factors Associated with Ambulance Use Among Emergency Department Patients. Acad Emerg Med 2011;18 (5)Suppl:S114.
159. Nordt SP, Castillo EM, Galinato M, Nguyen V, Clark RF, Cantrell FL, Chan TC, Vilke GM: Energy Drink Use and Adverse Effects Among Emergency Department Patients. Clin Toxicol 2011; 49(6):579.
160. Savaser DJ, Campbell CC, Chan TC, Shah V, Sloane CS, Hansen AV, Castillo EM, Vilke GM. The Effect of Prone Maximal Restraint (PMR, aka "Hog-Tie") Position on Cardiac Output and Other Hemodynamic Measurements. Acad Emer Med 2012;19(4):S78.
161. Castillo EM, Vilke GM, Killeen JP, Brennan JJ, Chan TC. Visit Urgency Between Frequent Emergency Department Users In A Large Metropolitan Region Network. Acad Emer Med 2012;19(4):S96.
162. Killeen JP, Castillo EM, Chan TC, Vilke GM. Emergency Department Patients on Warfarin - How Often Is the Visit Due to the Medication? Acad Emer Med 2012;19(4):S121.
163. Killeen JP, Chan TC, Vilke GM, Rafie S, Dunlay R, Castillo EM. Does Pharmacist Review of Medication Orders Delay Medication Administration in the Emergency Department? Acad Emer Med 2012;19(4):S166.
164. Killeen JP, Vilke GM, Chan TC, Oyama L, Carey M, Castillo EM. Does the Residency Selection Cycle Impact What Information Is Accessed on the Web? Acad Emer Med 2012;19(4):S202.
165. Vilke GM, Ali S, Simmons T, Witucki P, Wilson MP. Does An Alcohol-based Hand Sanitizer Affect Breathalyzer Levels? Acad Emer Med 2012;19(4):S278.
166. Vilke GM, Patel N, Castillo EM, Demers G. Safety and Efficacy of Milk and Molasses in the ED. Acad Emer Med 2012;19(4):S287.
167. Castillo EM, Chan TC, Bremmen JJ, Killeen JP, Vilke GM. Multiple Hospital Emergency Department Visits Among "Frequent Flyer" Patients With a Pain Associated-discharge Diagnosis. Acad Emer Med 2012;19(4):S321.
168. Wilson MP, Chen N, Minassian A, Vilke GM, Castillo EM. In Combination With Benzodiazepines And Alcohol Intoxication, Intramuscular But Not Oral Olanzapine Is Associated With Decreased Oxygen Saturations. Acad Emer Med 2012;19(4):S356.

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170. Castillo EM, Brennan JJ, Chan TC, Killeen JP, Vilke GM: Factors Associated With Frequent Users of Emergency Department Resources. *Ann Emer Med* 2012;60(4)S32.
171. DeMers G, Graydon C, Stein M, Wilson S, Buesch B, Berthiaume S, Lee DM, Rivas J, Vilke GM, Davis D: Analysis of Inter-facility Transfer Rates After Initiation of a Regional PCI System. *Ann Emer Med* 2012;60(4)S44.
172. Vilke GM, Brennan JJ, Castillo EM, Killeen JP, Chan TC: Multiple Hospital Emergency Department Visits Among Frequent Users With a Pain-Associated Discharge Diagnosis. *Ann Emer Med* 2012;60(4)S54.
173. Benaron D, Castillo EM, Vilke GM, Guluma KZ: Emergency Department Patient Perception of Stroke. *Ann Emer Med* 2012;60(4)S58.
174. Castillo EM, Chan TC, Killeen JP, Vilke GM: Knowledge of Acute Myocardial Infarction Symptoms: Do Sex Differences Still Exist? *Ann Emer Med* 2012;60(4)S83.
175. Chan TC, Castillo EM, Dunford JV, Fisher R, Jensen AM, Vilke GM, Killeen JP: Hot Spots and Frequent Fliers: Identifying High Users of Emergency Medical Services. *Ann Emer Med* 2012;60(4) S83-S84.
176. Brennan JJ, Chan TC, Vilke GM, Killeen JP, Castillo EM: Identification of Frequent Users of Hospital Emergency Department Resources Using a Community-wide Approach. *Ann Emer Med* 2012;60(4)S102.
177. Chan TC, Killeen JP, Brennan JJ, Vilke GM, Castillo EM: The Forgotten Emergency Department Visit When Assessing Hospital Readmissions. *Ann Emer Med* 2012;60(4)S105.
178. Brennan JJ, Chan TC, Killeen JP, Castillo EM, Vilke GM: Multiple Hospital Emergency Department Visits Among "Frequent Flyer" Patients With a Psychiatric-Associated Discharge Diagnosis. *Ann Emer Med* 2012;60(4) S146-S147.
179. Campillo A, MacDonald KS, Vilke GM, Wilson MP: The B52 Combination Is Not Frequently Used in Emergency Departments and Causes A High Proportion of Patients to Fall Asleep. *Ann Emer Med* 2012;60(4) S147.
180. Lin GK, Vilke GM, Castillo EM, Chen N, Wilson MP: A Comparison of Oral Aripiprazole and Oral Olanzapine Use in the Emergency Department. *Ann Emer Med* 2012;60(4) S147-S148.

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182. Hogen R, Brennan JJ, Vilke GM, Chan TC, Castillo EM: Visit Urgency amongst the Chronic Disease Population in a Large Metropolitan Region Emergency Department Network. Acad Emer Med 2013;20(5):S172.
183. Castillo EM, Chan TC, Vilke GM, Killeen JP, Brennan JJ: Factors Associated with Super Users of Emergency Department Resources Admitted to Acute Care. Acad Emer Med 2013;20(5):S183.
184. Brennan JJ, Chan TC, Vilke GM, Castillo EM, Killeen JP: Comorbidity among Frequent Emergency Department Users with Psychiatric Associated Discharge Diagnoses. Acad Emer Med 2013;20(5):S229.
185. Brennan JJ, Castillo EM, Vilke GM, Killeen JP, Chan TC: Factors Associated with Frequent Users of California Emergency Department Resources. Acad Emer Med 2013;20(5):S230.
186. Chan TC, Brennan JJ, Killeen JK, Stevenson ME, Kuntz KE, Vilke GM, Castillo EM: Impact of Social Services Case Management on Homeless, Frequent Users of Emergency Departments. Acad Emer Med 2013;20(5):S231.
187. Castillo EM, Chan TC, Brennan JJ, Roberts EE, Vilke GM. What Contributes to Subject and Officer Injuries During Law Enforcement Use of Force Events? Ann Emerg Med 2013, 62(4), S107.
188. Brennan JJ, Castillo EM, Wilson M, Chan TC, Killeen JP, Vilke GM. Psychiatric-Associated Visits to California Emergency Departments: Presence of Licensed Psychiatric Beds and Admission. Ann Emerg Med 2013, 62(4), S118.
189. Granata RT, Vilke GM. Impact of deferred CT imaging of intoxicated patients presenting with altered mental status. J Invest Med 2014;61(1):214.
190. Nowak RM, Schreiber D, Hollander J, Nagurney J, Hogan C, Wu A, Vilke GM, Apple F, Cannon C, Daniels L, Anand I, deFillippi C, McCord J, Shah K, Marston N, Neath SX, Christenson R, Diercks D, Linkakeng A, Jaffe A, Mueller C, Maisel A, Peacock F: Copeptin Provides Prognostic Value in Emergency Department Patients Presenting with Acute Undifferentiated Chest Pain. Acad Emerg Med 2014;21(5):S89.

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192. Vilke GM, Lassoiff D, Chan TC, Hall CA, Bozeman WP, Castillo EM. Proning: Outcomes of Use of Force Followed with Prone Restraint. Acad Emerg Med 2014; 21(Supp 1): S161.
193. Vilke GM, Chan TC, Roberts EE, Moore JD, Parra KM, Castillo EM. Does Law Enforcement Use Different Levels of Force if the Subject Appears to be Mentally Impaired? Acad Emerg Med 2014; 21(Supp 1): S238.
194. Hopper A, Dee J, Vilke GM, Castillo EM, Chen V, Hall D, Wilson MP. Hypotensive Effects of Risperidone Are Not Increased When Used in Conjunction with Benzodiazepines or in Alcohol Intoxicated Patients but May Increase in Elderly Patients. Acad Emerg Med 2014; 21(Supp 1):S56.
195. Castillo, EM, Brennan JJ, Hsia RY, Killeen JP, Vilke, GM, Chan TC. Thirty-day Readmissions Through the Emergency Department in a Large, Metropolitan Region. Acad Emerg Med 2014; 21(Supp 1):S108.
196. Castillo EM, Chan TC, Hsia RY, Killeen JP, Vilke GM, Brennan JJ. Should Rural Hospitals be Concerned about Frequent Users of Emergency Department Resources? Acad Emerg Med 2014; 21(Supp 1):S218.
197. Brennan JJ, Chan TC, Vilke GM, Hsia RY, Killeen JP, Castillo EM. Traveling Super Users of California Emergency Departments. Acad Emerg Med 2014; 21(Supp 1):S220.
198. Killeen JP, Castillo EM, Brennan JJ, Vilke GM, Chan TC. Does Emergency Department Interrogation Reduce ED Time for Patients with Pacemakers or ICDs? Acad Emerg Med 2014; 21(Supp 1):S274.
199. Castillo EM, Brennan JJ, Hsia RY, Killeen JP, Vilke GM, Chan TC. Multiple Emergency Department Use and 30-day ED Visits. Acad Emerg Med 2014; 21(Supp 1):S322.
200. Marston N, Shah K, Mueller C, Neath SX, Christenson R, McCord J, Nowak R, Vilke G, Daniels L, Hollander J, Apple F, Cannon C, Nagurney J, Schreiber D, DeFilippi C, Hogan C, Diercks D, Limkaken A, Anand I, Jaffe A, Peacock WF, Maisel A, Wu, A: Can a second measurement of copeptin improve acute myocardial infarction rule out?. J Am Coll Cardiol 2014;63(12_S).

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202. Castillo EM, Dang AQ, Chan TC, Vilke GM. Mortality and Timing of Death in Patients With Runaway Pacemakers. *Ann Emerg Med* 2014; 64(4s):S111.
203. Brennan JJ, Chan TC, Hsia RY, Vilke GM, Killeen JP, Castillo EM. Predicting Frequent Use of Emergency Department Resources. *Ann Emerg Med* 2014; 64(4s):S118 – S119.
204. Campillo A, Castillo EM, Vilke GM, Wilson MP. Use of Quetiapine in the Emergency Department for Acute Agitation and Associated Physiologic Effects. *Ann Emerg Med* 2014; 64(4s):S138.
205. Vilke GM, Lev R, Chan TC, Lucas J, Smith J, Painter NA, Castillo EM. Prescription Drug Prescribing Patterns in a Large Regional Area. *Ann Emerg Med* 2014; 64(4s):S139-S140.
206. Hopper AB, Deen J, Smith C, Campillo A, Vilke GM, Castillo EM, Wilson MP. Hypotensive Effects of Oral Second Generation Antipsychotics in the Emergency Department. *Ann Emerg Med* 2014; 64(4s):S140-S141.
207. Marston N, Shah K, Mueller C, Neath SX, Christenson R, McCord J, Nowak R, Vilke GM, Daniels L, Hollander J, Apple F, Cannon C, Nagurney J, Schreiber D, deFilippi C, Hogan C, Diercks D, Limkakend A, Anand I, Wu A, Clopton P, Jeffe A, Peacock F, Maisel A. Does Copeptin Provide Additional Risk Stratification in Chest Pain Patients With a Mild Troponin Elevation? *Circulation* 2014; 130:A12996.
208. Egnatios J, Lev R, Petro S, Castillo E, Vilke G. Long Active Death: Medadone. *Ann Emerg Med* 2015; 66(4s):S140-S141.
209. Vilke GM, Guss DA. Pilot Study of Telemedicine in a County Jail to Assess and Treat Acutely Ill Inmates. *Ann Emerg Med* 2015; 66(4s): S14.
210. Brennan JJ, Vilke GM, Hsia RY, Chan TC, Killeen JP, Huang J, Castillo EM. Transient Ischemic Attack “Bouncebacks”: Emergency Department Discharges Who Return as Admissions Within Seven Days. *Ann Emerg Med* 2015; 66(4s):S112.
211. Brennan JJ, Chan TC, Vilke GM, Killeen JP, Hsia RY, Tehaney K, Castillo EM. Admissions Within Seven Days of an Emergency Department Discharge. *Ann Emerg Med* 2015; 66(4s):S89.

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212. Lev R, Lee O, Petro S, Lucas J, Castillo EM, Vilke GM, Coyne CJ. Specialty-Specific Prescribing Patterns to Patients Who Die From Prescription Drugs: How Do Emergency Physicians Compare? *Ann Emerg Med* 2015; 66(4s):S119.
213. Castillo EM, Chan, TC, Vilke GM, Hsia RY, Ishamine P, Shah S, Kapoor K, Brennan JJ. A Description of Pediatric Frequent Users of Emergency Department Resources. *Ann Emerg Med* 2015; 66(4s):S8.
214. Chan TC, Brennan JJ, Vilke GM, Hsia RY, Killeen JP, Castillo EM. The Changing Landscape of Emergency Department Visits in California. *Acad Emerg Med* 2016; 23:S15
215. Castillo EM, Vilke GM, Killeen JP, Hsia RY, Wilson MP, Brennan JJ. ED Utilization Prior to a Suicide and Self-Inflicted Injury Related ED Visit. *Acad Emerg Med* 2016; 23:S17.
216. Supat B, Brennan JJ, Vilke GM, Ishimine P, Shah S, Hsia RY, Castillo EM. Assessing Factors Associated with Pediatric Frequent Emergency Department Utilization. *Acad Emerg Med* 2016; 23:S32.
217. Coyne CJ, Chiu C, Brennan JJ, Castillo EM, Vilke GM. Medication Adherence in the Emergency Department: What are the Barriers? *Acad Emerg Med* 2016; 23:S41.
218. Spinosa DL, Brennan JJ, Castillo EM, Hsia RY, Vilke GM. Multivariate Analysis of 30-Day Readmission for Acute Myocardial Infarction. *Acad Emerg Med* 2016; 23:S118.
219. Castillo EM, Brennan JJ, Shah S, Vilke GM, Hsia RY, Nguyen M. Asthma and Asthma-Mimicking Pediatric ED Revisit Within Three Days of an ED Discharge. *Acad Emerg Med* 2016; 23:S120.
220. Castillo EM, Brennan JJ, Chan TC, Killeen JP, Hsia RY, Vilke GM. ED Utilization 3-Days Prior to a Fall-Related ED Visit Among Elderly Patients. *Acad Emerg Med* 2016; 23:S139.
221. Coyne CJ, Le V, Brennan JJ, Castillo EM, Shatsky RA, Vilke GM. Low-Risk febrile Neutropenia: Can These Patients be Safely Discharged from the Emergency Department? *Acad Emerg Med* 2016; 23:S161.
222. Brennan JJ, Vilke GM, Chan TC, Killeen JP, Hsia RY, Castillo EM. ED Revisits Within 3 Days of an ED Discharge Among Elderly Patients. *Acad Emerg Med* 2016; 23:S169.
223. Nakajima Y, Vilke GM, Castillo EM, Brennan JJ, Hsia R. Asthma Bouncebacks Emergency Department Discharges Who Return as Admission Within Three Days. *Acad Emerg Med* 2016; 23:S202.

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224. Benaron D, Castillo E, Vilke G, Guluma K. Emergency Department Patient Perception of Stroke: A Comparison of Elderly and Nonelderly Knowledge of Stroke. Acad Emerg Med 2016; 23:S256.

ORAL PRESENTATIONS AT NATIONAL MEETINGS:

1. Chan TC, Buchanan J, Anderson M, Vilke GM: Patient ethnicity and age in prehospital emergency ambulance use and acuity rates. NAEMSP Mid-Year Meeting, Lake Tahoe, Nevada; July 1998.
2. Vilke GM, Dunford JV, Buchanan J, Chan TC: Are opiate overdose deaths related to patient release after naloxone? ACEP Research Forum, San Diego, California; October 1998.
3. Gerling MC, Hamilton RS, Davis DP, Morris GF, Vilke GM, Hayden SR: The effects of cervical spine immobilization on technique and laryngoscope blade selection on an unstable cervical spine injury in a cadaver model of intubation. ACEP Research Forum, San Diego, California; October 1998.
4. Vilke GM, Chan TC, Ray LU, Anderson ME: Use of prehospital crash injury data to assess regional automobile safety restraint use. NAEMSP Annual Meeting, Marcos Island, Florida; January 1999.
5. Chew GS, Chan TC, Bramwell K, Davis DP, Vilke GM: Does gastric distention from air insufflation affect the accuracy of the syringe esophageal detector device in detecting esophageal intubation? SAEM Western Regional Research Forum, Redondo Beach, California; March 1999.
6. Davis DP, Kimbro T, Vilke GM: The use of midazolam for prehospital rapid-sequence intubation may be associated with a dose-related increase in hypotension. NAEMSP Annual Meeting, Dana Point, California; January 2000.
7. Marino AT, Sharieff G, Gerhart AE, Chan TC, Vilke GM: The efficacy and complication rate of prehospital midazolam for the treatment of pediatric seizures. NAEMSP Annual Meeting, Dana Point, California; January 2000.
8. Eisele JW, Chan T, Vilke G, Neuman T, Clausen J: Effect of weight placed on the back of subjects in the hobble restraint position. American Academy of Forensic Sciences Annual Meeting, Reno, Nevada; February 2000.
9. Chan TC, Vilke GM, Neuman TS, Clark RF, Clausen JL: The effect of oleoresin capsicum spray inhalation on pulmonary and respiratory function. SAEM Western Regional Research Forum, Portland, Oregon; April 2000.
10. Vilke GM, Chan TC, Seltzer A, Fisher R, Dunford JV: Outcome of out-of-hospital refusal of paramedic transport by parents of pediatric patients. State of California EMS Authority EMS for Children Annual Conference, San Diego, California; November 2000.
11. Deitch S, Vilke GM, Marino A, Vroman D, Chan TC: Effect of prehospital use of nitroglycerine on EKG findings in patients with chest pain. American Academy of Emergency Medicine Annual Conference, Orlando, Florida; March 2001.

ORAL PRESENTATIONS AT NATIONAL MEETINGS, continued:

12. Vilke GM, Steen PJ, Smith AM, Chan TC: Pediatric intubation by paramedics: The San Diego County experience. SAEM Western Regional Research Forum, Irvine, California; March 2001.
13. Davis DP, Ochs M, Hoyt DB, Dunford JV, Vilke GM: The use of the Combitube as a salvage airway device for paramedic RSI. SAEM Western Regional Research Forum, Irvine, California; March 2001.
14. Chan TC, Dunford JV, Vilke GM: Impact of a community multidisciplinary homeless outreach team. SAEM Annual Meeting, Atlanta, Georgia; May 2001.
15. Chan TC, Dunford JV, Vilke GM: Impact of a community multidisciplinary homeless outreach team. CAL/ACEP Scientific Assembly, Santa Clara, California; June 2001. (Won Award for Best Oral Presentation)
16. Valentine C, Davis D, Ochs M, Hoyt D, Bailey D, Vilke G: The use of the Combitube as a salvage airway device for paramedic rapid sequence induction. NAEMSP Annual Meeting, Tucson, Arizona; January 2002.
17. Vilke GM, Lev R, Castillo EM, Metz MA, Murrin PA, Chan TC: Prospective countywide trial to decrease ambulance diversion hours. SAEM Western Regional Meeting, Scottsdale, Arizona; April 2003.
18. Vilke GM, Lev R, Castillo EM, Murrin PA, Chan TC: Prospective countywide trial to decrease ambulance diversion hours. SAEM Annual Meeting, Boston, Massachusetts, May 2003.
19. Vilke GM, Lev R, Castillo EM, Metz MA, Murrin PA, Chan TC: San Diego County improved patient destination trial to decrease emergency department diversion hours and diverted patients. American College of Emergency Physicians Research Forum, Boston, Massachusetts; October 2003.
20. Vilke G, Castillo E, Metz M, Murrin P, Ray LU, Lev R, Chan T: Community trial to decrease ambulance diversion of patients and hours. NAEMSP National Conference, Tucson, Arizona; January 2004.
21. Marcelyn Metz, Patricia Murrin, Gary M. Vilke: The three-phase EMS cardiac arrest model for ventricular fibrillation. ENA Annual Meeting; San Diego, California; October 2004.
22. Michalewicz, BA, TC Chan, GM Vilke, SS Levy, TS Neuman, and FW Kolkhorst: Ventilatory and metabolic demands during aggressive physical restraint in healthy adults. American College of Sports Medicine Annual Meeting, Denver, CO; June 2006. [*Medicine and Science in Sports and Exercise* 38(5 Supplement), 2006].
23. Vilke GM, Ali S, Simmons T, Witucki P, Wilson MP. Does an alcohol-based sanitizer impact breathalyzer levels? SAEM Annual Meeting, Chicago, Illinois; May 2012.

SELECTED SPEAKING ENGAGEMENTS:

1. "Death of a Child: How to Treat the Survivors" -- Grand Rounds, Department of Emergency Medicine, UCSD Medical Center; April 1996.
2. "Assessing GCS and the Field Neurologic Exam" -- Palomar College Paramedic Training; June 1998.
3. "Prehospital Shock"; "Management of the Field Trauma Patient" -- Mercy Air, Ventura County Lecture Series; August 1998.
4. "ER: Not Just a Television Show, But a Field of Research" -- Howard Hughes Foundation Lecture Series, University of California, San Diego; November 1998.
5. "Multi-Casualty Incident" -- UCSD Medical Center Trauma Conference; March 1999.
6. "Managing the Prehospital Multi-Casualty Incident" -- Southwestern College Paramedic Training Institute; May 1999.
7. "Aeromedical Transport: The Past and Current Environment" -- Trauma Morbidity and Mortality Conference, Children's Hospital, San Diego, California; July 1999.
8. "Altitude Medicine"; "Carbon Monoxide Poisoning and Treatment Options"; "Aeromedical Transport Options"; "Emergent Airway Management Options" -- Rural Emergency Medicine Conference, Jackson Hole, Wyoming; August 1999.
9. "Abdominal and Chest Trauma in Sports" -- First Annual San Diego County Athletic Coaches Workshop, San Diego, California; June 2000.
10. "Tabletop Discussion on Chemical Weapon of Mass Destruction" -- Facilitator of Tabletop Training for San Diego County Metropolitan Medical Strike Team; July 2000.
11. "Pediatric IV Access"; "Spinal Immobilization"; "Children with Special Health Care Needs"; "Cardiovascular Emergencies" -- American Academy of Pediatrics Pediatric Education for Prehospital Professionals Conference, San Diego, California; November 2000.
12. "New Frontiers in Field Management of Pediatric Status Epilepticus" -- State of California EMS Authority Annual EMS for Children Conference, San Diego, California; November 2000.
13. "EMS Medical Control: Avoiding your Day in Court" -- ACEP's Emergency Medicine Connection Conference, San Diego, California; March 2001.
14. "Pediatric Intubations by Paramedics" -- San Diego Chapter of the Committee on Pediatric Emergency Medicine; April 2001.
15. "Warfare and Terrorism: A Review of Chemical Agents" -- San Diego County Metropolitan Medical Strike Team Training; August 2001.

SELECTED SPEAKING ENGAGEMENTS, continued:

16. "Bioterrorism and San Diego County" -- Council of Community Clinics Meeting; October 2001.
17. "Bioterrorism and San Diego County Readiness" -- CTN interview with Bill Horn; October 2001.
18. "Future of Prehospital Care" -- Keynote Speaker, Southwestern Paramedic College Graduation; November 2001.
19. "Biological Agents for Terrorism" -- San Diego County Metropolitan Medical Strike Team Training; November 2001.
20. "Clinical Aspects of Bioterrorist Agents" -- Palomar Paramedic College; November 2001.
21. "Clinical Aspects of Bioterrorism" -- Grand Rounds, Fallbrook Hospital; January 2002.
22. "Bioterrorism and San Diego County Readiness" -- Poway Town Hall Meeting; January 2002.
23. "Bioterrorist Preparedness" -- National Medical Association, San Diego County; January 2002.
24. "Chemical Agents of Terrorism: Diagnosis and Treatment" -- Topics and Advances in Internal Medicine, San Diego, California; March 2002.
25. "Bioterrorism: Implications for the Legal and Domestic Community" -- Thomas Jefferson School of Law, San Diego, California; April 2002.
26. "Prehospital Management of Pediatric Seizures" -- EMS-Children Annual Conference; San Diego, California; November 2002.
27. "Paramedicine -- Past, Present and Future" -- Keynote Speaker, Southwestern Paramedic College Graduation; San Diego, California; December 2002.
28. "Medical Group Preparedness: How would you Respond to a Possible Victim of Bioterrorism?" -- Bioterrorism Preparedness Training Conference; San Diego California; January 2003.
29. "Update on Bioterrorism" -- The Western States Winter Conference on Emergency Medicine; Park City, Utah; January 2003.
30. "Academic Emergency Medicine and Research Opportunities" -- San Diego Health Information Association, San Diego, California; February 11, 2003.
32. "Blast and Radiological Injuries: Myths and Realities" -- San Diego County Metropolitan Medical Strike Team Training; San Diego, California; August 2003.

SELECTED SPEAKING ENGAGEMENTS, continued:

33. "Clinical Aspects of Bioterrorism" -- American Correctional Health Services Association, California and Nevada Chapter Annual Conference, San Diego, California; September 2003.
34. "Bioterrorism" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; October 2003.
35. "Prehospital Pediatric Airway Obstruction" -- Children's Hospital Grand Rounds, San Diego, California; July 2004.
36. "Future of Healthcare in San Diego: Trends Impacting our Delivery System" -- San Diego Organization of Healthcare Leaders, San Diego, California; August 2004.
36. "Firestorm 2003" -- Children's Hospital Grand Rounds, San Diego, California; January 2004.
37. "EMS research: Unique ethical and regulatory issues" -- Applied Research Ethics National Association Annual meeting, San Diego, California; October 2004.
38. "What happens when you call 911?" -- San Diego Sports Medicine Foundation, San Diego, California; October 2004.
39. "Making the Metropolitan Medical Response System Work for You" -- Emergency Response 2004 Conference, San Diego, California; November 2004.
40. "San Diego County Emergency Department Ambulance Bypass - Past, Present, Future" -- Urgent Matters Briefing, San Diego, California; November 2004.
41. "San Diego County Emergency Department Ambulance Bypass - Past, Present, and Future" -- San Diego Community Emergency Departments, San Diego, California; December 2, 2004.
42. "Emergency Response Management for Efficiency of Care and Fiscal Consideration" -- American Correctional Health Services Association, Oakland, California; April 2, 2005.
43. "Conducted Energy Devices -- Medical Updates and Issues" -- Police Executive Research Forum, Houston, Texas; October 18, 2005.
44. "Conducted Energy Devices Proximity Deaths and Medical Response" -- 2005 Critical Issues in Policing Series, Police Executive Research Forum, San Diego, California; December 8, 2005.
45. "Conductive Electrical Devices (Tasers®) and Patients with Excited Delirium for Law Enforcement and Emergency Medical Personnel" -- The U.S. Metropolitan Municipalities EMS Medical Directors Annual Meeting, Dallas, Texas; February 16, 2006.
46. "Tasers and Sudden Death" -- Keynote speaker at One Day Symposium on In-Custody Deaths by the Florida Sheriffs Association, Orlando, Florida; June 1, 2006.

SELECTED SPEAKING ENGAGEMENTS, continued:

47. "Medical Aspects of the Use of Force Continuum" -- Department of Justice Community Oriented Policing Services (COPS) Conference, Washington, DC; July 29, 2006.
48. "Resuscitation Outcomes Consortium" -- 7th Annual University of California Neurotrauma Meeting, Carmel, California; August 3, 2006.
49. "Use of Force: Sudden Death Myths and Excited Delirium" -- The Commission of Accreditation for Law Enforcement Agencies (CALEA) Less Lethal Technology Working Group Meeting, Washington, DC; September 10, 2006.
50. "Police In-Custody Deaths and the Taser Controversy" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; September 2006.
51. "Conductive Energy Devices: The medical aspects of Taser Electronic Control Devices (ECDs) and other Energy Devices" -- Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 16-17, 2006.
52. "Cardiac, Respiratory and Metabolic Effects of EMD" -- Study of Deaths Following Electro Muscular Disruption, Meeting of the Chief Medical Panel for the National Institute of Justice. Washington D.C.; January 9, 2007.
53. "The Medical Implications of Tasers and the Impact on EMS" -- National Association of EMS Physicians National Conference. Naples, FL; January 12, 2007.
54. "Excited Delirium" - Solutions For Corrections Seminar for the California State Sheriff's Association. Ontario, CA; February 7, 2007.
55. "Excited delirium, positional asphyxia and restraint" -- EMS Today Conference, Baltimore, Maryland; March 10, 2007.
56. "Medical implications of Tasers and other Conductive Energy Devices" -- EMS Today Conference, Baltimore, Maryland; March 10, 2007.
57. "Excited Delirium" -- American Correctional Health Services Association, Oakland, California; September 19, 2007.
58. "Human Physiologic Effects of Tasers" -- Study of Deaths Following Electro Muscular Disruption, Meeting of the Chief Medical Panel for the National Institute of Justice. Washington D.C.; September 27, 2007.
59. "The clinical impacts of TASER and other Conductive Energy Devices on Humans: A Review of the latest Medical Research" -- Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 28-30, 2007.

SELECTED SPEAKING ENGAGEMENTS, continued:

60. "Physiological Effects of Tasers" – The City Council of Miami-Dade. Miami, Florida; January 17, 2008.
61. "Excited Delirium: What is it? Why does it kill? What do we need to know about it? Western States Winter Conference on Emergency Medicine. Park City, Utah, February 8, 2008.
62. "Medical Effects of Tasers" – The City Council of Houston. Houston, Texas; March 10, 2008.
63. "Less Lethal Weapons" - Emergency Nurses Association, San Diego Chapter. San Diego, California; April 18, 2008.
64. "The Clinical Impacts of TASER and other Conductive Energy Devices on Humans and Why People Die Afterwards" -- American Correctional Health Services Association, San Diego, California; September 17, 2008.
65. "Police In-Custody Deaths and Excited Delirium" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; October 2008.
66. "The Clinical Impacts of TASER and other Conductive Energy Devices on Humans" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; October 29, 2008.
67. "Agitated Delirium – Role of Illicit Drug Use in Sudden Restraint Death" Western Medical Toxicology Fellowship Conference. San Diego, California; April 29, 2009.
68. "Conducted Energy Devices: Are They Safe Options?" Excited Delirium Conference by the Canadian Institute for the Prevention of In-Custody Deaths, Inc. Niagara Falls, Canada; May 26, 2009.
69. "The Physiologic Effects of the Taser on Humans" UCSD Biomedical and Clinical Research Seminars. San Diego, California; June 2, 2009.
70. "The Taser-Plastic Surgery Interface" UCSD Department of Plastic Surgery Grand Rounds. San Diego, California; June 17, 2009.
71. "ECD Research Update and Safety Issues" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 12, 2009.
72. "Use of the Restraint Chair and Positional Asphyxia" – Southern California Jail Manager's Association. Temecula, California; January 21, 2010.

SELECTED SPEAKING ENGAGEMENTS, continued:

73. "Excited Delirium Challenges and Best ER Practices" Excited Delirium Conference by the Canadian Institute for the Prevention of In-Custody Deaths, Inc. Niagara Falls, Canada; April 19, 2010.
74. "Excited Delirium and TASERS: What Physicians Need to Know" – Grand Rounds Scripps Encinitas Hospital. Encinitas, California; July 15, 2010.
75. "Excited Delirium and TASERS: What Physicians Need to Know" – Grand Rounds University Medical Center. Las Vegas Nevada; August 10, 2010.
76. "Review of ECD Research and Reported Cardiac Capture" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 17, 2010.
76. "The Science Behind the American Heart Association ACLS Guidelines" – Puerto Vallarta ACLS Resuscitation Conference. Puerto Vallarta, Mexico; February 18, 2011.
77. "The Science Behind the American Heart Association ACLS Guidelines" – Cabo San Lucas ACLS Resuscitation Conference. Cabo San Lucas, Mexico; March 25, 2011.
78. "ROC Cardiac Arrest Outcomes" – San Diego Resuscitation Conference. San Diego, California; April 9, 2011.
79. "Do Electronic Control Devices Kill Humans: Review of the Data" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 16, 2011.
80. "Evaluation After Choking or Strangulation" – UCSD Forensic Nursing Conference. San Diego, California; April 28, 2012.
81. "Prehospital Hypothermia for Cardiac Arrest" – Santa Clara County EMS Conference. San Mr. Herrera, California; May 23, 2012.
82. "The Science Behind the American Heart Association ACLS Guidelines" – Cabo San Lucas ACLS Resuscitation Conference. Cabo San Lucas, Mexico; August 21, 2012.
83. "Acute Cerebral Accidents" – Hermosillo ACLS Resuscitation Conference. Hermosillo, Sonora, Mexico; September 11, 2012.
84. "Excited Delirium Syndrome: TASERS, Restraints, and Sudden Death" – Emergency Nurses Association Annual Conference. San Diego, California; September 15, 2012.
85. "Electronic Control Devices and the not so Shocking Truth about their Lethality" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 14, 2012.

SELECTED SPEAKING ENGAGEMENTS, continued:

86. "Medical Evaluation and Detection of Dementia and Delirium" – Annual Update on Behavioral Emergencies Conference. Las Vegas, Nevada, December 5, 2012.
87. "Acute Cerebral Accidents" – Puerto Vallarta Resuscitation Conference. Puerto Vallarta Mexico; January 17, 2013.
88. "Excited Delirium Syndrome: TASERS, Restraints, and Sudden Death" – San Diego County Emergency Nurses Association 911 Conference. San Diego, California; April 19, 2013.
89. "Acute Cerebral Accidents" – Cabo San Lucas Resuscitation Conference. Cabo San Lucas Mexico; April 27, 2013.
90. "Acute Myocardial Infarction" – Mazatlan Resuscitation Conference. Mazatlan Mexico; May 7, 2013.
91. "Hypothermia Post Cardiac Arrest" –Acapulco Resuscitation Conference. Acapulco, Mexico; May 28, 2013.
92. "Bath Salts and In-Custody Death"- National Sheriff's Association. Charlotte, NC; June 25, 2013.
93. "Updates in Cardiac Arrest: The ROC Trials" – Mexico Association of Emergency Medicine Emergency Update Conference. Mexico City, Mexico; June 28, 2013.
94. "Management of Head Trauma" – Mexico Association of Emergency Medicine Emergency Update Conference. Mexico City, Mexico; June 28, 2013.
95. "Hypothermia Post Cardiac Arrest" –La Paz Resuscitation Conference. La Paz, Mexico; July 22, 2013.
96. "Management of Head Trauma" – Mexico Association of Emergency Medicine Emergency Update Conference. Monterrey, Mexico; September 26, 2013.
97. "Updates in Cardiac Arrest: The ROC Trials" – Mexico Association of Emergency Medicine Emergency Update Conference. Monterrey, Mexico; September 26, 2013.
98. "Risk Management and Minimizing Malpractice Exposure" – UCSD Department of Orthopedics Grand Rounds, San Diego, CA October 2, 2013.
99. "Decreasing Your Risk in Labor and Delivery" – UCSD 9th Annual Perinatal Symposium, San Diego, CA October 11, 2013.
100. "Excited Delirium Syndrome: TASERS, Restraints, and Sudden Death" – UCSD Department of Emergency Medicine Grand Rounds, San Diego, CA November 11, 2013.

SELECTED SPEAKING ENGAGEMENTS, continued:

101. "Excited Delirium Syndrome" – Annual Update on Behavioral Emergencies Conference. Orlando, Florida; December 12, 2013.
102. "The importance of CT on the initial evaluation of a trauma patient: ABC or AB-CT ?" – Primero Simposium Internacional BNH con UCSD Celebrado en Los Cabos. Los Cabos, Mexico; December 7, 2013.
103. "Management of Head Trauma" –Emergency Medicine Update Conference. Puerto Vallarta, Mexico; December 18, 2013.
104. "Updates in Cardiac Arrest: The ROC Trials" – Emergency Medicine Update Conference. Puerto Vallarta, Mexico; December 18, 2013.
105. "Pulmonary Embolism: Evaluation and Treatment"- 25th Annual Mexico Emergency Medicine Congress. Acapulco, Mexico; February 20, 2014.
106. "Management of Head Trauma" –Emergency Medicine Update Conference. Puerto Vallarta, Mexico; March 5, 2014.
107. "Updates in Cardiac Arrest: The ROC Trials" – Emergency Medicine Update Conference. Puerto Vallarta, Mexico; March 5, 2015.
108. "Management of Burns" –Trauma Update Conference. Puerto Vallarta, Mexico; April 3, 2014.
109. "Management of Head Trauma" –Trauma Update Conference. Puerto Vallarta, Mexico; April 3, 2014.
110. "Cuffs, Chains and Chairs" – Restraint and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; April 24, 2014.
111. "Management of Burns" –Trauma Update Conference. Los Cabos, Mexico; June 5, 2014.
112. "Management of Head Trauma" - Primera Feria Annual de la Salud. Guadalajara, Mexico; July 18, 2014
113. "Management of Burns" - Primera Feria Annual de la Salud. Guadalajara, Mexico; July 18, 2014.
114. "Updates in Cardiac Arrest: The ROC Trials" – Primera Feria Annual de la Salud. Guadalajara, Mexico; July 18, 2014.
115. "Pulmonary Embolism: Evaluation and Treatment"- Primera Feria Annual de la Salud. Guadalajara, Mexico; July 18, 2014.
116. "Risk Management and Minimizing Malpractice Exposure" – UCSD Department of Anesthesia Pain Service Grand Rounds, San Diego, CA September 24, 2014.

117. "The ABCs of CPR" –Huatulco Resuscitation Conference. Huatulco, Mexico; October 2, 2014.
118. "Risk Management and Minimizing Malpractice Exposure" –UCSD Division of Gastroenterology Grand Rounds, San Diego, CA October 16, 2014.
119. "Identification and Treatment of Excited Delirium Syndrome" - Annual Update on Behavioral Emergencies Conference. Scottsdale, Arizona; December 11, 2014.
120. "Autopsy of an In-Custody Death" – Defense Research Institute Annual Conference, San Diego, CA January 30, 2015.
121. "TASERS: The shocking truth"- 26th Annual Mexico Emergency Medicine Congress. Mazatlan, Mexico; February 5, 2015.
122. "Resuscitation Update: CPR, Hypothermia and new devices" - 26th Annual Mexico Emergency Medicine Congress. Mazatlan, Mexico; February 5, 2015.
123. "Management of Head Trauma" - Segundo Feria Annual de la Salud. Guadalajara, Mexico; May 22, 2015.
124. "Updates in Cardiac Arrest: The ROC Trials" – Segundo Feria Annual de la Salud. Guadalajara, Mexico; May 22, 2015.
125. "Pulmonary Embolism: Evaluation and Treatment"- Segundo Feria Annual de la Salud. Guadalajara, Mexico; May 22, 2015.
126. "Resuscitation Update: CPR, Hypothermia and new devices" – Altitude and Travel Medicine Symposium. Cusco, Peru; August 21, 2015.
127. "Approaches to Stabilization, Transfer and Disposition of Tourist with Multiple Trauma – Altitude and Travel Medicine Symposium. Cusco, Peru; August 21, 2015.
128. "Risk Management and Minimizing Malpractice Exposure" –UCSD Department of Orthopedics Grand Rounds, San Diego, CA December 2, 2015.
129. "Ketamine and EMS" – Annual Update on Behavioral Emergencies Conference. Las Vegas, Nevada; December 3, 2015.
130. "Pulmonary Embolism: Evaluation and Treatment"- 27th Annual Mexico Emergency Medicine Congress. Puerto Vallarta, Mexico; February 4, 2016.
131. "The importance of CT on the initial evaluation of a trauma patient: ABC or AB-CT ?" – 27th Annual Mexico Emergency Medicine Congress. Puerto Vallarta, Mexico; February 4, 2016.

SELECTED SPEAKING ENGAGEMENTS, continued:

132. "Risk Management and Minimizing Malpractice Exposure" – UCSD Department of Dermatology Grand Rounds, San Diego, CA February 11, 2016.
133. "Remembering the Provider" – Southern California Association of Health Risk Managers, Palm Desert, CA May 4, 2016.

APPENDIX B

Deposition Testimony

June 19, 2012

Rachel Higgins v. Board of County Commissioners, et al
U.S. District Court, Second Judicial, County of Bernalillo, NM
Case #: 202-CV-2010-01619
Attorney: Meena Allen
Defense: Death from meningitis in jail

September 20, 2012

Anita Russell v. Denny Wright, Appomattox County, et al
U.S. District Court, Western District of Virginia
Case #: 3:11-cv-00075
Attorney: Jeremy Carroll
Defense: In custody death, TASER

September 24, 2012

Athena Bacthel v TASER International, Inc
U.S. District Court, Eastern District of Missouri
Case #: 2:08-CV-0049-AGF
Attorney: John Renzulli
Defense: In custody death, TASER, excited delirium

November 28, 2012

Lois Jean Green v Riverside County Sheriff's Department, et al
Superior Court of the State of California, County of Riverside
Case #: RIC 523816
Attorney: Arthur Cunningham
Defense: In custody death, TASER, excited delirium

December 19, 2012

June Elaine Sylvester v. County of Del Norte, TASER International, Inc., et al
U.S. District Court, Northern District of California
Case No. CV 11-1459 EMC
Attorney: John Vrieze
Defense: In custody death, TASER, excited delirium

February 25, 2013

Ada Morales Coto v. County of Los Angeles, et al
Luis Molina v County of Los Angeles, et al
Superior Court of California, County of Los Angeles-Central District
Case No. BC444905
Attorney: Rittu Kumar
Defense: In custody death, TASER excited delirium

September 6, 2013

Gail Waters v City and County of Denver, et al.
U.S. District Court, District of Colorado

Case No. 12-cv-1856-MSK-BNB

Attorney: Wendy Shea

Defense: In custody death, TASER, weight force

December 3, 2013

Edwin Burris, Mr. Douglas v Lester E. Cox Medical Centers, et al

Circuit Court of Green County, Missouri at Springfield

Case No: 1231-CV30973

Attorney: Randy Cowherd

Defense: Alleged Missed CVA

March 13, 2014

Charlene Nelson v. County of Riverside, et al

Superior Court of the State of California, County of Riverside

Case No.: RIC10011174

Attorney: Art Cunningham

Defense: In custody death, restraint asphyxia, TASER

April 10, 2014

Jason Patti v The State of Arizona, et al

Maricopa County Superior Court

Case # CV2012-011263

Attorney: Bob Grasso

Defense: SBO from ingesting a glove

April 30, 2014

Estate of William D. Mackey, et al v Horizon Human Services, Inc, et al

Maricopa County Superior Court

Case # CV 2011-022086

Attorney : Marshall Humphrey

Defense: Choking death

July 29, 2014

Irving Marquez v. Eddy County, et al

U.S. District Court, District of New Mexico

Case #: 11-CV-838 DJS/WDS

Attorney: Jonlyn Martinez

Defense: West Nile Virus Encephalitis in custody delay in diagnosis

August 13, 2014

Rickey Burtchett v Lester E. Cox Medical Center, et al

The Circuit Court of Greene County, Missouri

Case #: 1231-CV13544

Attorney: Randy Cowherd

Defense: Delay in diagnosis of arterial occlusion

August 23, 2014

Louis DePasquale, et al v Garrett Emery, M.D.

District Court Of Utah, Third Judicial District, Salt Lake County

Case #: 130907530

Attorney: Pete Summerill
Mr. Douglas: Missed perforated duodenal ulcer

September 2, 2014
Estate of George Salgado, et al. v. Miami-Dade County, et al.
U.S. District Court, Southern District of Florida
Case # 12-cv-24458 King/Torres
Attorney: Oscar Marrero
Defense: In custody death, TASER, ExDS

September 30, 2014
Estate of Ronald H. Armstrong v. Pinehurst, et al.
Superior Court of North Carolina, Moore County
Case No. 1:13-CV-407
Attorney: Dan Hartzog
Defense: In custody death, TASER, Positional Asphyxia, ExDS

November 11, 2014
Brejanea Burley, et al v. County of Los Angeles, et al.
Superior Court of the State of California, County of Los Angeles, South District
Case No. TC027341
Attorney: Tim Kral
Defense: In custody death, TASER, OC Spray, Asphyxia, ExDS

March 2, 2015
Khang Le, et al v. City of El Monte, et al
Superior Court of the State of California, County of Los Angeles, South District
Case No. BC497169
Attorney: Peter Ferguson
Defense: In custody death, neck hold, positional restraint, TASER

May 8, 2015
Laura Wilbanks v Banner Health, et al
Superior Court For The State Of Alaska Fourth Judicial District At Fairbanks
Case No. 4FA-13-1917 CI
Attorney: Mike Stepovich
Mr. Douglas: Missed CVA

June 18, 2015
Frederick Ronald Thomas, Jr. v. City of Fullerton, et al
Superior Court of the State of California, County of San Orange
Case No. 30-2012-00581299
Attorney: Barry Hassenberg
Defense: In custody death, TASER, positional restraint

September 10, 2015
Bridget Wiseman v. City of Fullerton, et al
Superior Court of the State of California, County of San Orange
Case No. 30-2013-00643502-CU-PO-CJC
Attorney: Barry Hassenberg

Defense: Hanging at a jail

October 9, 2015

Damion Russell v. City of Los Angeles, et al

U.S. District Court, Central District of California

Case No. CV14-9433-JFW-(Ex)

Attorney: Christian Bojorquez

Defense: In custody death, positional restraint, TASER

January 13, 2016

Michelle Ernst v. Creek County Public Facilities Authority, et al

U.S. District Court, Northern District of Oklahoma

Case# 14-CV-504-GKF-PJC

Attorney: Mickey Walsh

Plaintiff: Jail suicide

February 12, 2016

V.W., minor v. City of Vallejo et al

U.S. District Court, Eastern District of California, Sacramento Div

Case# 2:12-CV-01629-LKK-AC

Attorney: Sean Conley

Defense: In custody death, positional restraint, TASER, neck hold

February 23, 2016

Aimee Bevan v. Santa Fe County, et al

State of New Mexico, County of Santa Fe First Judicial Court

Case# D-101-CV-2015-00061

Attorney: Mark Komer

Defense: In custody death, heroin OD

Trial Testimony

April 17, 2013

United States of America v Luis Fonseca
U.S. District Court, Southern District of California
Case # 12CR1434-H
Attorney: Stuart Adams
Defense: Criminal case of strangulation

May 3, 2013

New Mexico Medical Board v Dr. Mark Walden
New Mexico Medical Board hearing
Case # 2012-009
Attorney: Nicole Charlebois
Defense: Allegations of sexual abuse

July 29, 2013

Lois Jean Green v Riverside County Sheriff's Department, et al
Superior Court of the State of California, County of Riverside
Case #: RIC 523816
Attorney: Arthur Cunningham
Defense: In custody death, TASER, excited delirium

December 16, 2013

People of the State of California v. Jay Cicinelli
Superior Court, Orange County
Attorney: Michael Schwartz
Defense: Murder/manslaughter case, positional restraint

January 22, 2014

Gail Waters v. City and County of Denver, et al.
U.S. District Court, District of Colorado
Case No. 12-cv-1856-MSK-BNB
Attorney: Wendy Shea
Defense: In custody death, TASER, weight force

March 7, 2014

Charles Kretek, et al v. Board of Commissioners of Luna County, et al.
U.S. District Court, District of New Mexico
Case No. CIV-11-676 RB/GBW
Attorney: Jonlyn Martinez
Defense: In custody death, TASER, OC spray, weight force

April 22, 2014

Carole Krechman v County of Riverside, et al
U.S. District Court, Central District of California, Riverside County
Case# CV 10-08705
Attorney: Bruce Disenhouse
Defense In custody death, compression asphyxia

May 13, 2014

Audry Henry v. City of Los Angeles, et al
U.S. District Court, Central District of California, Western Division
Case No. CV13-03151 JAK (MRWx)
Attorney: Christian Bojorquez
Defense: In custody death, positional restraint, neck hold, TASER

August 22, 2014

Ester Katz, et al v County of Riverside, et al
Superior Court of the State of California, County of Riverside
Case #: RIC 1213947
Attorney: Arthur Cunningham
Defense: In custody death, OC spray

October 7, 2014

Estate of Marvin L. Booker, et al v. City and County of Denver, et al
U.S. District Court, District of Colorado
Case No: 11-cv-00645-RBJ-KMT
Attorney: Tom Rice
Defense: In custody death, positional restraint, TASER, neck hold

December 9, 2014

Brejana Burley, et al v. County of Los Angeles, et al
Superior Court of the State of California, County of Los Angeles, South District
Case No. TC027341
Attorney: Louis Pappas
Defense: In custody death, TASER, Asphyxia, ExDS

March 3, 2015

Steve Kassab v. San Diego Police Department, et al
U.S. District Court, Southern District of California
Case No. 07cv1071
Attorney: Stacy Plotkin-Wolff
Defense: Hyperthermia allegation from being in police car

October 14, 2015

Tevin Bell v. County of San Diego, et al
U.S. District Court, Southern District of California
Case No. 14cv1767-H (MDD)
Attorney: Carra Rhamy
Defense: TASER, neck hold, blunt force trauma

October 27, 2015

Donald Ivy Grand Jury Investigation
Albany County Supreme Court
Case No. 1503156
Attorney David Rossi
Expert: TASER

November 4, 2015

Frederick Ronald Thomas, Jr. v. City of Fullerton, et al 402 Hearing
Superior Court of the State of California, County of San Orange
Case No. 30-2012-00581299
Attorney: Barry Hassenberg
Defense: In custody death, TASER, positional restraint